



# 中华人民共和国国家标准

GB 5009.225—2023

## 食品安全国家标准 酒和食用酒精中乙醇浓度的测定

2023-09-06 发布

2024-03-06 实施

中华人民共和国国家卫生健康委员会  
国家市场监督管理总局 发布

## 前 言

本标准代替 GB 5009.225—2016《食品安全国家标准 酒中乙醇浓度的测定》。

本标准与 GB 5009.225—2016 相比,主要变化如下:

- 标准名称修改为“食品安全国家标准 酒和食用酒精中乙醇浓度的测定”;
- 修改了密度瓶法的适用范围及部分内容;
- 修改了酒精计法的适用范围及部分内容;
- 修改了气相色谱法的仪器条件及部分内容;
- 修改了数字密度计法的方法名称、适用范围及部分内容;
- 修改了附录 A;
- 修改了附录 B;
- 增加了附录 C。

# 食品安全国家标准

## 酒和食用酒精中乙醇浓度的测定

### 1 适用范围

本标准规定了酒和食用酒精中乙醇浓度(酒精度)的测定方法。

第一法密度瓶法适用于酒和食用酒精中乙醇浓度(酒精度)的测定。

第二法酒精计法适用于酒(除啤酒外)和食用酒精中乙醇浓度(酒精度)的测定。

第三法气相色谱法适用于啤酒、葡萄酒和果酒中乙醇浓度(酒精度)的测定。

第四法 U 形振荡管数字密度计法适用于酒和食用酒精中乙醇浓度(酒精度)的测定。

### 第一法 密度瓶法

### 2 原理

以蒸馏法去除样品中的不挥发性物质,用密度瓶法测出试样(酒精水溶液)20℃时的密度,通过查询酒精水溶液密度与乙醇浓度(酒精度)对照表,求得在 20℃时的乙醇浓度(酒精度)。

### 3 试剂和材料

水为 GB/T 6682 规定的三级水。

### 4 仪器和设备

4.1 分析天平:感量 0.000 1 g。

4.2 全玻璃蒸馏器:500 mL。

4.3 恒温水浴:控温精度 $\pm 0.1$ ℃。

4.4 附温度计密度瓶:25 mL 或 50 mL。

4.5 容量瓶:100 mL。

### 5 分析步骤

#### 5.1 试样处理

##### 5.1.1 不含二氧化碳的酒样品制备

将洁净、干燥的 100 mL 容量瓶和样品恒温至 20℃后,准确量取样品 100 mL 于 500 mL 蒸馏瓶中,用 50 mL 水分 3 次冲洗容量瓶,洗液并入 500 mL 蒸馏瓶中,加几颗沸石(或玻璃珠),连接蛇形冷凝管,以取样用的原容量瓶作接收器(外加冰浴),开启冷却水(冷却水温度宜低于 15℃),缓慢加热蒸馏,收集馏出液。当接近刻度时,取下容量瓶,盖塞,于 20℃水浴中保温 30 min,再补加水(20℃)至刻度,混匀,备用。

## 5.1.2 含二氧化碳的酒样品制备

### 5.1.2.1 样品中二氧化碳的去除

在保证样品有代表性下,用振摇、超声波或搅拌等方式除去酒样中的二氧化碳气体。样品去除二氧化碳有两种方法:

第一法:将恢复室温的酒样约 300 mL 倒入 1 000 mL 锥形瓶中,加橡皮塞,轻轻摇动,开塞放气,盖塞。反复操作,直至无气泡逸出为止。用单层中速干滤纸(漏斗上面盖玻璃表面皿)过滤。

第二法:采用超声波或磁力搅拌法除气,将恢复室温的酒样约 300 mL 移入带排气塞的瓶中,置于超声波水槽中(或搅拌器上),超声(或搅拌)一定时间,直至无气泡逸出为止,用单层中速干滤纸过滤(漏斗上面盖玻璃表面皿)。

试样去除二氧化碳后,收集于具塞锥形瓶中,临用现配。

### 5.1.2.2 样品蒸馏

同 5.1.1。

## 5.1.3 食用酒精样品制备

直接测定。

## 5.2 试样溶液的测定

5.2.1 将密度瓶洗净并干燥,带温度计和侧孔罩称量。重复干燥和称重,直至前后 2 次质量差不超过 2 mg,即恒重( $m_0$ )。

5.2.2 取下带温度计的瓶塞,将煮沸冷却至 15 ℃ 的水注满已恒重的密度瓶中,插上带温度计的瓶塞(瓶中不得有气泡),立即浸入(20±0.1)℃ 的恒温水浴中,待内容物温度达 20 ℃ 时保持 20 min。用滤纸快速吸去溢出侧管的液体,使侧管的液面和侧管管口齐平,立即盖好侧孔罩,取出密度瓶,用滤纸擦干瓶外壁上的液体,然后称量( $m_1$ )。

5.2.3 将水倒出,先用无水乙醇,再用乙醚冲洗密度瓶,吹干,用试样馏出液反复冲洗密度瓶 3 次~5 次,然后装满。按照 5.2.2 操作,称量( $m_2$ )。

## 6 分析结果的表述

样品在 20 ℃ 的密度( $\rho_{20}$ )按式(1)计算,空气浮力校正值( $A$ )按式(2)计算。

$$\rho_{20} = 998.20 \times \frac{m_2 - m_0 + A}{m_1 - m_0 + A} \quad \dots\dots\dots (1)$$

$$A = \rho_u \times \frac{m_1 - m_0}{997.0} \quad \dots\dots\dots (2)$$

式中:

$\rho_{20}$  ——样品在 20 ℃ 时的密度,单位为克每升(g/L);

998.20 ——20 ℃ 时蒸馏水的密度,单位为克每升(g/L);

$m_2$  ——20 ℃ 时密度瓶和试样的质量,单位为克(g);

$m_0$  ——密度瓶的质量,单位为克(g);

$A$  ——空气浮力校正值;

$m_1$  ——浮力校正时密度瓶与水的质量,单位为克(g);

$\rho_u$  ——干燥空气在 20 °C、1 013.25 hPa 时的密度(1.2 g/L)；

997.0 ——20 °C 时蒸馏水与干燥空气密度值之差,单位为克每升(g/L)。

根据试样的密度  $\rho_{20}$ ,查附录 A,求得酒精度,以体积分数“% vol”表示。

以重复性条件下获得的 2 次独立测定结果的算术平均值表示,结果保留至小数点后 1 位。

## 7 精密度

啤酒样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.5% vol。

## 第二法 酒精计法

## 8 原理

以蒸馏法去除样品中不挥发性物质,用酒精计测得酒精体积分数示值,通过查询酒精计温度与 20 °C 乙醇浓度(酒精度)换算表进行温度校正,求得样品在 20 °C 时的乙醇浓度(酒精度)。

## 9 仪器和设备

- 9.1 精密酒精计:分度值为 0.1% vol。
- 9.2 全玻璃蒸馏器:500 mL、1 000 mL。
- 9.3 量筒:100 mL、200 mL、500 mL、1 000 mL。
- 9.4 温度计:分度值为 0.1 °C。

## 10 分析步骤

### 10.1 试样处理

#### 10.1.1 不含二氧化碳的酒样品制备

同 5.1.1(具体取样量应按酒精计的要求调整)。

#### 10.1.2 食用酒精样品制备

直接测定。

#### 10.1.3 含二氧化碳的酒样品制备

同 5.1.2(具体取样量应按酒精计的要求调整)。

### 10.2 试样溶液的测定

将试样溶液注入洁净、干燥的量筒中(具体的试样体积和量筒须根据酒精计的要求决定),静置数分钟,待试样中气泡消失后,放入洁净、擦干的酒精计,再轻轻按一下,不应接触量筒壁,同时插入温度计,平衡约 5 min,水平观测,读取与弯月面相切处的刻度示值,同时记录温度。

## 11 分析结果表述

根据测得的酒精计示值和温度,查附录 B,换算成 20 °C 时样品的酒精度,以体积分数“% vol”表示。以重复性条件下获得的 2 次独立测定结果的算术平均值表示,结果保留至小数点后 1 位。

## 12 精密度

在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过的 0.5 % vol。

# 第三法 气相色谱法

## 13 原理

试样进入气相色谱仪中的色谱柱时,由于在气固两相中吸附系数不同,使乙醇与其他组分得以分离,利用氢火焰离子化检测器进行检测,与标样对照,根据保留时间定性,利用内标法定量。

## 14 试剂和材料

除非另有说明,本方法所用试剂均为分析纯,水为 GB/T 6682 规定的一级水。

### 14.1 标准品

14.1.1 乙醇( $\text{C}_2\text{H}_6\text{O}$ ,CAS 号:64-17-5):纯度 $\geq 99.0\%$ ,或经国家认证并授予标准物质证书的标准品。

14.1.2 正丙醇 $[\text{CH}_3(\text{CH}_2)_2\text{OH}]$ ,CAS 号:71-23-8]:纯度 $\geq 99.0\%$ ,或经国家认证并授予标准物质证书的标准品。

### 14.2 标准溶液配制

14.2.1 乙醇使用液(10%):移取恒温至 20 °C 的乙醇 10.00 mL 于 100 mL 容量瓶中,用 20 °C 的水定容至刻度,混匀。临用现配。

14.2.2 正丙醇内标使用液(10%):移取恒温至 20 °C 的正丙醇 10.00 mL 于 100 mL 容量瓶中,用 20 °C 的水定容至刻度,混匀。临用现配。

14.2.3 乙醇标准系列工作液:分别移取恒温至 20 °C 的乙醇使用液 0.10 mL、0.20 mL、0.50 mL、1.00 mL、2.00 mL 于 10 mL 容量瓶中,用 20 °C 的水定容至刻度,再加入 20 °C 的正丙醇内标使用液 0.50 mL,混匀,得到浓度为 0.10%、0.20%、0.50%、1.00%、2.00% 的标准系列曲线。临用现配。

## 15 仪器和设备

15.1 气相色谱仪:配有氢火焰离子化检测器(FID)。

## 16 分析步骤

### 16.1 试样制备

移取 1.00 mL 按 5.1 处理后的试样(液温 20 °C)于 10 mL 容量瓶中(无醇样品移取 10.00 mL),用

20℃的水定容至刻度线,加入 0.50 mL 恒温至 20℃的正丙醇内标使用液,混匀。

## 16.2 仪器参考条件

16.2.1 色谱柱:键合/交联聚乙二醇固定相石英毛细管色谱柱,60 m×0.25 mm,0.25 μm,或性能相当的色谱柱。

16.2.2 载气:高纯氮;恒流模式,柱流速 1.0 mL/min。

16.2.3 采用程序升温:柱初始温度 40℃,保持 5 min,以 3℃/min 速率升温至 55℃,再以 10℃/min 速率升温至 150℃,再以 40℃/min 速率升温至 220℃,保持 5 min。

16.2.4 进样口温度:200℃。

16.2.5 检测器温度:250℃。

16.2.6 氢气流量:30 mL/min。

16.2.7 空气流量:350 mL/min。

16.2.8 进样量:0.5 μL。

16.2.9 进样方式:分流进样,分流比 100:1。

注:应根据不同仪器,通过试验选择最佳色谱条件,以使乙醇和内标组分获得完全分离。

## 16.3 标准曲线的制作

按照 16.2 的仪器参考条件,将乙醇标准系列工作液分别注入气相色谱仪中,测定相应的峰面积,以标准系列工作液中乙醇浓度为横坐标,以乙醇和内标峰面积的比值为纵坐标,绘制工作曲线。

## 16.4 试样溶液的测定

按照 16.2 的仪器参考条件,将试样溶液注入气相色谱仪中,得到样品中乙醇和内标峰面积的比值,由标准工作曲线计算测试液中乙醇浓度。

## 17 分析结果的表述

试样中乙醇含量按式(3)计算。

$$C_1 = C_2 \times f \quad \dots\dots\dots (3)$$

式中:

$C_1$ ——试样中乙醇的含量,以体积分数(% vol)表示;

$C_2$ ——试样测定液中乙醇的含量,以体积分数(% vol)表示;

$f$ ——试样稀释倍数。

以重复性条件下获得的 2 次独立测定结果的算术平均值表示,结果保留至小数点后 1 位。

## 18 精密度

啤酒样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.5% vol。

## 第四法 U 形振荡管数字密度计法

### 19 原理

将试样注入数字密度计的 U 形振荡管测量池中,振荡管的质量改变导致 U 形管的振荡频率或周期

也改变。利用 20℃ 下试样的振荡频率或周期以及仪器常数可测得样品在 20℃ 的密度。再通过酒精水溶液密度与乙醇浓度(酒精度)对照表,即可换算得到样品在 20℃ 时的乙醇浓度(酒精度)。

## 20 试剂和材料

水为 GB/T 6682 规定的一级水。

### 20.1 乙醇(C<sub>2</sub>H<sub>6</sub>O):分析纯。

## 21 仪器和设备

21.1 U 形振荡管数字密度计:分析精度±0.000 01 g/mL,控温精度±0.02℃。

21.2 10 mL 注射器或自动进样器。

21.3 大气压力计:精度±0.5 kPa。

## 22 分析步骤

### 22.1 试样制备

#### 22.1.1 不含二氧化碳的酒样品制备

同 5.1.1。

#### 22.1.2 含二氧化碳的酒样品制备

同 5.1.2。

#### 22.1.3 食用酒精样品制备

直接测定。

### 22.2 仪器的校正

仪器首次安装,空气/水检查结果与参考密度值的偏差超过 0.000 05 g/mL 时,应对仪器进行校正,具体见附录 C(或根据仪器说明书进行校正)。

### 22.3 试样溶液的测定

使用适当的注射器或进样装置将试样溶液注入仪器的 U 形管测量池,当数字密度计的温度平衡稳定在(20±0.02)℃时,直接读取仪器 20℃ 的酒精度;对于非自动计算型密度计,读取试样溶液在(20±0.02)℃的振荡周期  $T_s$ ,并按式(4)计算出该试样的密度值。

$$\rho = 998.20 + 1\,000 \times K \times (T_s^2 - T_{\text{水}}^2) \quad \dots\dots\dots (4)$$

式中:

- $\rho$  ——样品的密度,单位为克每升(g/L);
- 998.20 ——20℃ 时蒸馏水的密度,单位为克每升(g/L);
- $K$  ——仪器常数,即附录 C 中式(C.2)的仪器常数  $K$  值;
- $T_s$  ——U 形振荡管充满样品时的振动周期,单位为秒(s);
- $T_{\text{水}}$  ——U 形振荡管充满水时的振动周期,单位为秒(s)。



## 23 分析结果的表述

直接读取仪器 20 ℃时的酒精度或根据仪器测定的密度,查附录 A,求得样品在 20 ℃时酒精度,以体积分数“% vol”表示。以重复性条件下获得的 2 次独立测定结果的算术平均值表示,结果保留至小数点后 1 位。

## 24 精密度

啤酒样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重复性条件下获得的 2 次独立测定结果的绝对差值不得超过 0.5% vol。

## 附 录 A

## 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)

酒精水溶液密度与乙醇浓度(酒精度)对照表见表 A.1。

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
998.20	0.00	997.56	0.42	996.93	0.84
998.18	0.01	997.54	0.43	996.92	0.85
998.17	0.02	997.53	0.44	996.91	0.86
998.16	0.03	997.52	0.45	996.89	0.87
998.14	0.04	997.50	0.46	996.88	0.88
998.12	0.05	997.48	0.47	996.86	0.89
998.11	0.06	997.47	0.48	996.85	0.90
998.10	0.07	997.46	0.49	996.84	0.91
998.08	0.08	997.44	0.50	996.82	0.92
998.06	0.09	997.42	0.51	996.80	0.93
998.05	0.10	997.41	0.52	996.79	0.94
998.04	0.11	997.40	0.53	996.78	0.95
998.02	0.12	997.38	0.54	996.76	0.96
998.00	0.13	997.36	0.55	996.74	0.97
997.99	0.14	997.35	0.56	996.73	0.98
997.98	0.15	997.34	0.57	996.72	0.99
997.96	0.16	997.32	0.58	996.70	1.00
997.94	0.17	997.30	0.59	996.68	1.01
997.93	0.18	997.29	0.60	996.67	1.02
997.92	0.19	997.28	0.61	996.66	1.03
997.90	0.20	997.26	0.62	996.64	1.04
997.88	0.21	997.24	0.63	996.62	1.05
997.87	0.22	997.23	0.64	996.61	1.06
997.86	0.23	997.22	0.65	996.60	1.07
997.84	0.24	997.20	0.66	996.58	1.08
997.82	0.25	997.18	0.67	996.56	1.09
997.81	0.26	997.17	0.68	996.55	1.10
997.80	0.27	997.16	0.69	996.54	1.11
997.78	0.28	997.14	0.70	996.52	1.12
997.76	0.29	997.12	0.71	996.50	1.13
997.75	0.30	997.11	0.72	996.49	1.14
997.73	0.31	997.10	0.73	996.48	1.15
997.72	0.32	997.08	0.74	996.46	1.16
997.70	0.33	997.06	0.75	996.44	1.17
997.69	0.34	997.05	0.76	996.43	1.18
997.67	0.35	997.04	0.77	996.42	1.19
997.65	0.36	997.02	0.78	996.40	1.20
997.64	0.37	997.00	0.79	996.38	1.21
997.62	0.38	996.99	0.80	996.37	1.22
997.61	0.39	996.98	0.81	996.36	1.23
997.59	0.40	996.96	0.82	996.34	1.24
997.58	0.41	996.95	0.83	996.32	1.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
996.31	1.26	995.58	1.76	994.86	2.26
996.30	1.27	995.56	1.77	994.84	2.27
996.28	1.28	995.55	1.78	994.83	2.28
996.26	1.29	995.54	1.79	994.81	2.29
996.25	1.30	995.52	1.80	994.80	2.30
996.24	1.31	995.51	1.81	994.79	2.31
996.22	1.32	995.49	1.82	994.77	2.32
996.21	1.33	995.48	1.83	994.76	2.33
996.19	1.34	995.46	1.84	994.74	2.34
996.18	1.35	995.45	1.85	994.73	2.35
996.17	1.36	995.44	1.86	994.72	2.36
996.15	1.37	995.42	1.87	994.70	2.37
996.14	1.38	995.41	1.88	994.69	2.38
996.12	1.39	995.39	1.89	994.67	2.39
996.11	1.40	995.38	1.90	994.66	2.40
996.10	1.41	995.36	1.91	994.64	2.41
996.08	1.42	995.35	1.92	994.63	2.42
996.06	1.43	995.34	1.93	994.62	2.43
996.05	1.44	995.32	1.94	994.60	2.44
996.04	1.45	995.30	1.95	994.58	2.45
996.02	1.46	995.29	1.96	994.57	2.46
996.00	1.47	995.28	1.97	994.56	2.47
995.99	1.48	995.26	1.98	994.54	2.48
995.98	1.49	995.24	1.99	994.52	2.49
995.96	1.50	995.23	2.00	994.51	2.50
995.94	1.51	995.22	2.01	994.50	2.51
995.93	1.52	995.20	2.02	994.48	2.52
995.92	1.53	995.19	2.03	994.47	2.53
995.90	1.54	995.17	2.04	994.45	2.54
995.89	1.55	995.16	2.05	994.44	2.55
995.87	1.56	995.15	2.06	994.43	2.56
995.86	1.57	995.13	2.07	994.41	2.57
995.84	1.58	995.12	2.08	994.40	2.58
995.82	1.59	995.10	2.09	994.38	2.59
995.81	1.60	995.09	2.10	994.37	2.60
995.80	1.61	995.08	2.11	994.36	2.61
995.78	1.62	995.06	2.12	994.34	2.62
995.77	1.63	995.04	2.13	994.33	2.63
995.75	1.64	995.03	2.14	994.31	2.64
995.74	1.65	995.02	2.15	994.30	2.65
995.73	1.66	995.00	2.16	994.29	2.66
995.71	1.67	994.98	2.17	994.27	2.67
995.70	1.68	994.97	2.18	994.26	2.68
995.68	1.69	994.96	2.19	994.24	2.69
995.67	1.70	994.94	2.20	994.23	2.70
995.66	1.71	994.93	2.21	994.22	2.71
995.64	1.72	994.91	2.22	994.20	2.72
995.62	1.73	994.90	2.23	994.19	2.73
995.61	1.74	994.88	2.24	994.17	2.74
995.60	1.75	994.87	2.25	994.16	2.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
994.15	2.76	993.44	3.26	992.75	3.76
994.13	2.77	993.42	3.27	992.73	3.77
994.12	2.78	993.41	3.28	992.72	3.78
994.10	2.79	993.39	3.29	992.70	3.79
994.09	2.80	993.38	3.30	992.69	3.80
994.08	2.81	993.37	3.31	992.68	3.81
994.06	2.82	993.35	3.32	992.66	3.82
994.05	2.83	993.34	3.33	992.65	3.83
994.03	2.84	993.32	3.34	992.63	3.84
994.02	2.85	993.31	3.35	992.62	3.85
994.01	2.86	993.30	3.36	992.61	3.86
993.99	2.87	993.28	3.37	992.59	3.87
993.98	2.88	993.27	3.38	992.58	3.88
993.96	2.89	993.25	3.39	992.56	3.89
993.95	2.90	993.24	3.40	992.55	3.90
993.94	2.91	993.23	3.41	992.54	3.91
993.92	2.92	993.21	3.42	992.52	3.92
993.91	2.93	993.20	3.43	992.51	3.93
993.89	2.94	993.19	3.44	992.49	3.94
993.88	2.95	993.18	3.45	992.48	3.95
993.87	2.96	993.16	3.46	992.47	3.96
993.85	2.97	993.15	3.47	992.45	3.97
993.84	2.98	993.14	3.48	992.44	3.98
993.82	2.99	993.12	3.49	992.42	3.99
993.81	3.00	993.11	3.50	992.41	4.00
993.80	3.01	993.10	3.51	992.40	4.01
993.78	3.02	993.08	3.52	992.38	4.02
993.76	3.03	993.07	3.53	992.37	4.03
993.75	3.04	993.05	3.54	992.36	4.04
993.74	3.05	993.04	3.55	992.34	4.05
993.72	3.06	993.03	3.56	992.33	4.06
993.70	3.07	993.01	3.57	992.32	4.07
993.69	3.08	993.00	3.58	992.31	4.08
993.68	3.09	992.98	3.59	992.29	4.09
993.66	3.10	992.97	3.60	992.28	4.10
993.65	3.11	992.96	3.61	992.27	4.11
993.63	3.12	992.94	3.62	992.25	4.12
993.62	3.13	992.93	3.63	992.24	4.13
993.60	3.14	992.91	3.64	992.22	4.14
993.59	3.15	992.90	3.65	992.21	4.15
993.58	3.16	992.89	3.66	992.20	4.16
993.56	3.17	992.87	3.67	992.18	4.17
993.55	3.18	992.86	3.68	992.17	4.18
993.53	3.19	992.84	3.69	992.15	4.19
993.52	3.20	992.83	3.70	992.14	4.20
993.51	3.21	992.82	3.71	992.13	4.21
993.49	3.22	992.80	3.72	992.11	4.22
993.48	3.23	992.79	3.73	992.10	4.23
993.46	3.24	992.77	3.74	992.08	4.24
993.45	3.25	992.76	3.75	992.07	4.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
992.06	4.26	991.38	4.76	990.71	5.26
992.04	4.27	991.36	4.77	990.69	5.27
992.03	4.28	991.35	4.78	990.68	5.28
992.01	4.29	991.33	4.79	990.66	5.29
992.00	4.30	991.32	4.80	990.65	5.30
991.99	4.31	991.31	4.81	990.64	5.31
991.97	4.32	991.29	4.82	990.62	5.32
991.96	4.33	991.28	4.83	990.61	5.33
991.95	4.34	991.27	4.84	990.60	5.34
991.94	4.35	991.26	4.85	990.58	5.35
991.92	4.36	991.24	4.86	990.57	5.36
991.91	4.37	991.23	4.87	990.56	5.37
991.90	4.38	991.22	4.88	990.55	5.38
991.88	4.39	991.20	4.89	990.53	5.39
991.87	4.40	991.19	4.90	990.52	5.40
991.86	4.41	991.18	4.91	990.51	5.41
991.84	4.42	991.16	4.92	990.49	5.42
991.83	4.43	991.15	4.93	990.48	5.43
991.81	4.44	991.14	4.94	990.47	5.44
991.80	4.45	991.12	4.95	990.46	5.45
991.79	4.46	991.11	4.96	990.44	5.46
991.77	4.47	991.10	4.97	990.43	5.47
991.76	4.48	991.09	4.98	990.42	5.48
991.74	4.49	991.07	4.99	990.40	5.49
991.73	4.50	991.06	5.00	990.39	5.50
991.72	4.51	991.05	5.01	990.38	5.51
991.70	4.52	991.03	5.02	990.36	5.52
991.69	4.53	991.02	5.03	990.35	5.53
991.67	4.54	991.00	5.04	990.34	5.54
991.66	4.55	990.99	5.05	990.32	5.55
991.65	4.56	990.98	5.06	990.31	5.56
991.63	4.57	990.96	5.07	990.30	5.57
991.62	4.58	990.95	5.08	990.29	5.58
991.60	4.59	990.93	5.09	990.27	5.59
991.59	4.60	990.92	5.10	990.26	5.60
991.58	4.61	990.91	5.11	990.25	5.61
991.56	4.62	990.89	5.12	990.23	5.62
991.55	4.63	990.88	5.13	990.22	5.63
991.54	4.64	990.87	5.14	990.20	5.64
991.52	4.65	990.86	5.15	990.19	5.65
991.51	4.66	990.84	5.16	990.18	5.66
991.50	4.67	990.83	5.17	990.16	5.67
991.49	4.68	990.82	5.18	990.15	5.68
991.47	4.69	990.80	5.19	990.13	5.69
991.46	4.70	990.79	5.20	990.12	5.70
991.45	4.71	990.78	5.21	990.11	5.71
991.43	4.72	990.76	5.22	990.09	5.72
991.42	4.73	990.75	5.23	990.08	5.73
991.40	4.74	990.73	5.24	990.07	5.74
991.39	4.75	990.72	5.25	990.06	5.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
990.04	5.76	989.39	6.26	988.74	6.76
990.03	5.77	989.38	6.27	988.73	6.77
990.02	5.78	989.37	6.28	988.72	6.78
990.00	5.79	989.35	6.29	988.70	6.79
989.99	5.80	989.34	6.30	988.69	6.80
989.98	5.81	989.33	6.31	988.68	6.81
989.96	5.82	989.31	6.32	988.66	6.82
989.95	5.83	989.30	6.33	988.65	6.83
989.94	5.84	989.29	6.34	988.64	6.84
989.92	5.85	989.28	6.35	988.62	6.85
989.91	5.86	989.26	6.36	988.61	6.86
989.90	5.87	989.25	6.37	988.60	6.87
989.89	5.88	989.24	6.38	988.59	6.88
989.87	5.89	989.22	6.39	988.57	6.89
989.86	5.90	989.21	6.40	988.56	6.90
989.85	5.91	989.20	6.41	988.55	6.91
989.83	5.92	989.18	6.42	988.53	6.92
989.82	5.93	989.17	6.43	988.52	6.93
989.81	5.94	989.16	6.44	988.51	6.94
989.80	5.95	989.14	6.45	988.50	6.95
989.78	5.96	989.13	6.46	988.48	6.96
989.77	5.97	989.12	6.47	988.47	6.97
989.76	5.98	989.11	6.48	988.46	6.98
989.74	5.99	989.09	6.49	988.44	6.99
989.73	6.00	989.08	6.50	988.43	7.00
989.72	6.01	989.07	6.51	988.42	7.01
989.70	6.02	989.05	6.52	988.40	7.02
989.69	6.03	989.04	6.53	988.39	7.03
989.68	6.04	989.03	6.54	988.38	7.04
989.66	6.05	989.02	6.55	988.36	7.05
989.65	6.06	989.00	6.56	988.35	7.06
989.64	6.07	988.99	6.57	988.34	7.07
989.63	6.08	988.98	6.58	988.33	7.08
989.61	6.09	988.96	6.59	988.31	7.09
989.60	6.10	988.95	6.60	988.30	7.10
989.59	6.11	988.94	6.61	988.29	7.11
989.57	6.12	988.92	6.62	988.28	7.12
989.56	6.13	988.91	6.63	988.26	7.13
989.55	6.14	988.90	6.64	988.25	7.14
989.54	6.15	988.89	6.65	988.24	7.15
989.52	6.16	988.87	6.66	988.23	7.16
989.51	6.17	988.86	6.67	988.22	7.17
989.50	6.18	988.85	6.68	988.20	7.18
989.48	6.19	988.83	6.69	988.19	7.19
989.47	6.20	988.82	6.70	988.18	7.20
989.46	6.21	988.81	6.71	988.17	7.21
989.44	6.22	988.79	6.72	988.15	7.22
989.43	6.23	988.78	6.73	988.14	7.23
989.42	6.24	988.77	6.74	988.13	7.24
989.40	6.25	988.76	6.75	988.12	7.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
988.10	7.26	987.47	7.76	986.84	8.26
988.09	7.27	987.46	7.77	986.83	8.27
988.08	7.28	987.44	7.78	986.81	8.28
988.06	7.29	987.43	7.79	986.80	8.29
988.05	7.30	987.42	7.80	986.79	8.30
988.04	7.31	987.41	7.81	986.78	8.31
988.02	7.32	987.39	7.82	986.76	8.32
988.01	7.33	987.38	7.83	986.75	8.33
988.00	7.34	987.37	7.84	986.74	8.34
987.98	7.35	987.36	7.85	986.72	8.35
987.97	7.36	987.34	7.86	986.71	8.36
987.96	7.37	987.33	7.87	986.70	8.37
987.95	7.38	987.32	7.88	986.69	8.38
987.93	7.39	987.30	7.89	986.67	8.39
987.92	7.40	987.29	7.90	986.66	8.40
987.91	7.41	987.28	7.91	986.65	8.41
987.89	7.42	987.26	7.92	986.64	8.42
987.88	7.43	987.25	7.93	986.62	8.43
987.87	7.44	987.24	7.94	986.61	8.44
987.86	7.45	987.22	7.95	986.60	8.45
987.84	7.46	987.21	7.96	986.59	8.46
987.83	7.47	987.20	7.97	986.58	8.47
987.82	7.48	987.19	7.98	986.56	8.48
987.80	7.49	987.17	7.99	986.55	8.49
987.79	7.50	987.16	8.00	986.54	8.50
987.78	7.51	987.15	8.01	986.53	8.51
987.77	7.52	987.14	8.02	986.52	8.52
987.75	7.53	987.12	8.03	986.50	8.53
987.74	7.54	987.11	8.04	986.49	8.54
987.73	7.55	987.10	8.05	986.48	8.55
987.72	7.56	987.09	8.06	986.47	8.56
987.71	7.57	987.08	8.07	986.46	8.57
987.69	7.58	987.06	8.08	986.44	8.58
987.68	7.59	987.05	8.09	986.43	8.59
987.67	7.60	987.04	8.10	986.42	8.60
987.66	7.61	987.03	8.11	986.41	8.61
987.64	7.62	987.01	8.12	986.39	8.62
987.63	7.63	987.00	8.13	986.38	8.63
987.62	7.64	986.99	8.14	986.37	8.64
987.60	7.65	986.98	8.15	986.36	8.65
987.59	7.66	986.96	8.16	986.34	8.66
987.58	7.67	986.95	8.17	986.33	8.67
987.57	7.68	986.94	8.18	986.32	8.68
987.55	7.69	986.92	8.19	986.30	8.69
987.54	7.70	986.91	8.20	986.29	8.70
987.53	7.71	986.90	8.21	986.28	8.71
987.52	7.72	986.89	8.22	986.27	8.72
987.50	7.73	986.87	8.23	986.25	8.73
987.49	7.74	986.86	8.24	986.24	8.74
987.48	7.75	986.85	8.25	986.23	8.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
986.22	8.76	985.61	9.26	985.00	9.76
986.21	8.77	985.60	9.27	984.99	9.77
986.19	8.78	985.58	9.28	984.97	9.78
986.18	8.79	985.57	9.29	984.96	9.79
986.17	8.80	985.56	9.30	984.95	9.80
986.16	8.81	985.55	9.31	984.94	9.81
986.15	8.82	985.54	9.32	984.93	9.82
986.13	8.83	985.52	9.33	984.91	9.83
986.12	8.84	985.51	9.34	984.90	9.84
986.11	8.85	985.50	9.35	984.89	9.85
986.10	8.86	985.49	9.36	984.88	9.86
986.09	8.87	985.48	9.37	984.87	9.87
986.07	8.88	985.46	9.38	984.85	9.88
986.06	8.89	985.45	9.39	984.84	9.89
986.05	8.90	985.44	9.40	984.83	9.90
986.04	8.91	985.43	9.41	984.82	9.91
986.02	8.92	985.41	9.42	984.81	9.92
986.01	8.93	985.40	9.43	984.79	9.93
986.00	8.94	985.39	9.44	984.78	9.94
985.98	8.95	985.38	9.45	984.77	9.95
985.97	8.96	985.36	9.46	984.76	9.96
985.96	8.97	985.35	9.47	984.75	9.97
985.95	8.98	985.34	9.48	984.73	9.98
985.93	8.99	985.32	9.49	984.72	9.99
985.92	9.00	985.31	9.50	984.71	10.00
985.91	9.01	985.30	9.51	984.70	10.01
985.90	9.02	985.29	9.52	984.69	10.02
985.88	9.03	985.27	9.53	984.67	10.03
985.87	9.04	985.26	9.54	984.66	10.04
985.86	9.05	985.25	9.55	984.65	10.05
985.85	9.06	985.24	9.56	984.64	10.06
985.84	9.07	985.23	9.57	984.63	10.07
985.82	9.08	985.21	9.58	984.61	10.08
985.81	9.09	985.20	9.59	984.60	10.09
985.80	9.10	985.19	9.60	984.59	10.10
985.79	9.11	985.18	9.61	984.58	10.11
985.78	9.12	985.17	9.62	984.57	10.12
985.76	9.13	985.15	9.63	984.55	10.13
985.75	9.14	985.14	9.64	984.54	10.14
985.74	9.15	985.13	9.65	984.53	10.15
985.73	9.16	985.12	9.66	984.52	10.16
985.72	9.17	985.11	9.67	984.51	10.17
985.70	9.18	985.09	9.68	984.49	10.18
985.69	9.19	985.08	9.69	984.48	10.19
985.68	9.20	985.07	9.70	984.47	10.20
985.67	9.21	985.06	9.71	984.46	10.21
985.66	9.22	985.05	9.72	984.45	10.22
985.64	9.23	985.03	9.73	984.43	10.23
985.63	9.24	985.02	9.74	984.42	10.24
985.62	9.25	985.01	9.75	984.41	10.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
984.40	10.26	983.81	10.76	983.22	11.26
984.39	10.27	983.80	10.77	983.21	11.27
984.37	10.28	983.78	10.78	983.19	11.28
984.36	10.29	983.77	10.79	983.18	11.29
984.35	10.30	983.76	10.80	983.17	11.30
984.34	10.31	983.75	10.81	983.16	11.31
984.33	10.32	983.74	10.82	983.15	11.32
984.31	10.33	983.72	10.83	983.13	11.33
984.30	10.34	983.71	10.84	983.12	11.34
984.29	10.35	983.70	10.85	983.11	11.35
984.28	10.36	983.69	10.86	983.10	11.36
984.27	10.37	983.68	10.87	983.09	11.37
984.25	10.38	983.66	10.88	983.07	11.38
984.24	10.39	983.65	10.89	983.06	11.39
984.23	10.40	983.64	10.90	983.05	11.40
984.22	10.41	983.63	10.91	983.04	11.41
984.21	10.42	983.62	10.92	983.03	11.42
984.19	10.43	983.60	10.93	983.02	11.43
984.18	10.44	983.59	10.94	983.01	11.44
984.17	10.45	983.58	10.95	983.00	11.45
984.16	10.46	983.57	10.96	982.98	11.46
984.15	10.47	983.56	10.97	982.97	11.47
984.13	10.48	983.54	10.98	982.96	11.48
984.12	10.49	983.53	10.99	982.95	11.49
984.11	10.50	983.52	11.00	982.94	11.50
984.10	10.51	983.51	11.01	982.93	11.51
984.09	10.52	983.50	11.02	982.92	11.52
984.07	10.53	983.48	11.03	982.90	11.53
984.06	10.54	983.47	11.04	982.89	11.54
984.05	10.55	983.46	11.05	982.88	11.55
984.04	10.56	983.45	11.06	982.87	11.56
984.03	10.57	983.44	11.07	982.86	11.57
984.01	10.58	983.42	11.08	982.84	11.58
984.00	10.59	983.41	11.09	982.83	11.59
983.99	10.60	983.40	11.10	982.82	11.60
983.98	10.61	983.39	11.11	982.81	11.61
983.97	10.62	983.38	11.12	982.80	11.62
983.96	10.63	983.37	11.13	982.78	11.63
983.95	10.64	983.36	11.14	982.77	11.64
983.94	10.65	983.34	11.15	982.76	11.65
983.92	10.66	983.33	11.16	982.75	11.66
983.91	10.67	983.32	11.17	982.74	11.67
983.90	10.68	983.31	11.18	982.72	11.68
983.89	10.69	983.30	11.19	982.71	11.69
983.88	10.70	983.29	11.20	982.70	11.70
983.87	10.71	983.28	11.21	982.69	11.71
983.86	10.72	983.27	11.22	982.68	11.72
983.84	10.73	983.25	11.23	982.67	11.73
983.83	10.74	983.24	11.24	982.66	11.74
983.82	10.75	983.23	11.25	982.64	11.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
982.63	11.76	982.05	12.26	981.48	12.76
982.62	11.77	982.04	12.27	981.47	12.77
982.61	11.78	982.03	12.28	981.46	12.78
982.60	11.79	982.02	12.29	981.45	12.79
982.59	11.80	982.01	12.30	981.44	12.80
982.58	11.81	982.00	12.31	981.43	12.81
982.57	11.82	981.99	12.32	981.42	12.82
982.55	11.83	981.97	12.33	981.40	12.83
982.54	11.84	981.96	12.34	981.39	12.84
982.53	11.85	981.95	12.35	981.38	12.85
982.52	11.86	981.94	12.36	981.37	12.86
982.51	11.87	981.93	12.37	981.36	12.87
982.49	11.88	981.91	12.38	981.34	12.88
982.48	11.89	981.90	12.39	981.33	12.89
982.47	11.90	981.89	12.40	981.32	12.90
982.46	11.91	981.88	12.41	981.31	12.91
982.45	11.92	981.87	12.42	981.30	12.92
982.43	11.93	981.86	12.43	981.29	12.93
982.42	11.94	981.85	12.44	981.28	12.94
982.41	11.95	981.84	12.45	981.26	12.95
982.40	11.96	981.82	12.46	981.25	12.96
982.39	11.97	981.81	12.47	981.24	12.97
982.37	11.98	981.80	12.48	981.23	12.98
982.36	11.99	981.79	12.49	981.22	12.99
982.35	12.00	981.78	12.50	981.21	13.00
982.34	12.01	981.77	12.51	981.20	13.01
982.33	12.02	981.76	12.52	981.19	13.02
982.32	12.03	981.75	12.53	981.18	13.03
982.31	12.04	981.74	12.54	981.17	13.04
982.30	12.05	981.72	12.55	981.16	13.05
982.28	12.06	981.71	12.56	981.14	13.06
982.27	12.07	981.70	12.57	981.13	13.07
982.26	12.08	981.69	12.58	981.12	13.08
982.25	12.09	981.68	12.59	981.11	13.09
982.24	12.10	981.67	12.60	981.10	13.10
982.23	12.11	981.66	12.61	981.09	13.11
982.22	12.12	981.65	12.62	981.08	13.12
982.20	12.13	981.63	12.63	981.06	13.13
982.19	12.14	981.62	12.64	981.05	13.14
982.18	12.15	981.61	12.65	981.04	13.15
982.17	12.16	981.60	12.66	981.03	13.16
982.16	12.17	981.59	12.67	981.02	13.17
982.14	12.18	981.57	12.68	981.00	13.18
982.13	12.19	981.56	12.69	980.99	13.19
982.12	12.20	981.55	12.70	980.98	13.20
982.11	12.21	981.54	12.71	980.97	13.21
982.10	12.22	981.53	12.72	980.96	13.22
982.09	12.23	981.52	12.73	980.95	13.23
982.08	12.24	981.51	12.74	980.94	13.24
982.06	12.25	981.50	12.75	980.92	13.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
980.91	13.26	980.35	13.76	979.79	14.26
980.90	13.27	980.34	13.77	979.78	14.27
980.89	13.28	980.33	13.78	979.77	14.28
980.88	13.29	980.32	13.79	979.76	14.29
980.87	13.30	980.31	13.80	979.75	14.30
980.86	13.31	980.30	13.81	979.74	14.31
980.85	13.32	980.29	13.82	979.73	14.32
980.84	13.33	980.27	13.83	979.72	14.33
980.83	13.34	980.26	13.84	979.71	14.34
980.82	13.35	980.25	13.85	979.70	14.35
980.80	13.36	980.24	13.86	979.68	14.36
980.79	13.37	980.23	13.87	979.67	14.37
980.78	13.38	980.21	13.88	979.66	14.38
980.77	13.39	980.20	13.89	979.65	14.39
980.76	13.40	980.19	13.90	979.64	14.40
980.75	13.41	980.18	13.91	979.63	14.41
980.74	13.42	980.17	13.92	979.62	14.42
980.72	13.43	980.16	13.93	979.60	14.43
980.71	13.44	980.15	13.94	979.59	14.44
980.70	13.45	980.14	13.95	979.58	14.45
980.69	13.46	980.12	13.96	979.57	14.46
980.68	13.47	980.11	13.97	979.56	14.47
980.66	13.48	980.10	13.98	979.54	14.48
980.65	13.49	980.09	13.99	979.53	14.49
980.64	13.50	980.08	14.00	979.52	14.50
980.63	13.51	980.07	14.01	979.51	14.51
980.62	13.52	980.06	14.02	979.50	14.52
980.61	13.53	980.05	14.03	979.49	14.53
980.60	13.54	980.04	14.04	979.48	14.54
980.58	13.55	980.02	14.05	979.46	14.55
980.57	13.56	980.01	14.06	979.45	14.56
980.56	13.57	980.00	14.07	979.44	14.57
980.55	13.58	979.99	14.08	979.43	14.58
980.54	13.59	979.98	14.09	979.42	14.59
980.53	13.60	979.97	14.10	979.41	14.60
980.52	13.61	979.96	14.11	979.40	14.61
980.51	13.62	979.95	14.12	979.39	14.62
980.50	13.63	979.94	14.13	979.38	14.63
980.49	13.64	979.93	14.14	979.37	14.64
980.48	13.65	979.92	14.15	979.36	14.65
980.46	13.66	979.90	14.16	979.34	14.66
980.45	13.67	979.89	14.17	979.33	14.67
980.44	13.68	979.88	14.18	979.32	14.68
980.43	13.69	979.87	14.19	979.31	14.69
980.42	13.70	979.86	14.20	979.30	14.70
980.41	13.71	979.85	14.21	979.29	14.71
980.40	13.72	979.84	14.22	979.28	14.72
980.39	13.73	979.83	14.23	979.27	14.73
980.38	13.74	979.82	14.24	979.26	14.74
980.36	13.75	979.80	14.25	979.24	14.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
979.23	14.76	978.68	15.26	978.13	15.76
979.22	14.77	978.67	15.27	978.12	15.77
979.21	14.78	978.66	15.28	978.11	15.78
979.20	14.79	978.65	15.29	978.10	15.79
979.19	14.80	978.64	15.30	978.09	15.80
979.18	14.81	978.63	15.31	978.08	15.81
979.17	14.82	978.62	15.32	978.07	15.82
979.16	14.83	978.61	15.33	978.06	15.83
979.15	14.84	978.60	15.34	978.05	15.84
979.14	14.85	978.58	15.35	978.04	15.85
979.12	14.86	978.57	15.36	978.02	15.86
979.11	14.87	978.56	15.37	978.01	15.87
979.10	14.88	978.55	15.38	978.00	15.88
979.09	14.89	978.54	15.39	977.99	15.89
979.08	14.90	978.53	15.40	977.98	15.90
979.07	14.91	978.52	15.41	977.97	15.91
979.06	14.92	978.51	15.42	977.96	15.92
979.05	14.93	978.50	15.43	977.95	15.93
979.04	14.94	978.49	15.44	977.94	15.94
979.02	14.95	978.48	15.45	977.92	15.95
979.01	14.96	978.46	15.46	977.91	15.96
979.00	14.97	978.45	15.47	977.90	15.97
978.99	14.98	978.44	15.48	977.89	15.98
978.98	14.99	978.43	15.49	977.88	15.99
978.97	15.00	978.42	15.50	977.87	16.00
978.96	15.01	978.41	15.51	977.86	16.01
978.95	15.02	978.40	15.52	977.85	16.02
978.94	15.03	978.39	15.53	977.84	16.03
978.93	15.04	978.38	15.54	977.83	16.04
978.92	15.05	978.36	15.55	977.82	16.05
978.90	15.06	978.35	15.56	977.80	16.06
978.89	15.07	978.34	15.57	977.79	16.07
978.88	15.08	978.33	15.58	977.78	16.08
978.87	15.09	978.32	15.59	977.77	16.09
978.86	15.10	978.31	15.60	977.76	16.10
978.85	15.11	978.30	15.61	977.75	16.11
978.84	15.12	978.29	15.62	977.74	16.12
978.83	15.13	978.28	15.63	977.73	16.13
978.82	15.14	978.27	15.64	977.72	16.14
978.80	15.15	978.26	15.65	977.70	16.15
978.79	15.16	978.24	15.66	977.69	16.16
978.78	15.17	978.23	15.67	977.68	16.17
978.77	15.18	978.22	15.68	977.67	16.18
978.76	15.19	978.21	15.69	977.66	16.19
978.75	15.20	978.20	15.70	977.65	16.20
978.74	15.21	978.19	15.71	977.64	16.21
978.73	15.22	978.18	15.72	977.63	16.22
978.72	15.23	978.17	15.73	977.62	16.23
978.71	15.24	978.16	15.74	977.61	16.24
978.70	15.25	978.14	15.75	977.60	16.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
977.59	16.26	977.04	16.76	976.50	17.26
977.58	16.27	977.03	16.77	976.49	17.27
977.57	16.28	977.02	16.78	976.48	17.28
977.56	16.29	977.01	16.79	976.47	17.29
977.55	16.30	977.00	16.80	976.46	17.30
977.54	16.31	976.99	16.81	976.45	17.31
977.53	16.32	976.98	16.82	976.44	17.32
977.52	16.33	976.97	16.83	976.43	17.33
977.51	16.34	976.96	16.84	976.42	17.34
977.50	16.35	976.94	16.85	976.40	17.35
977.48	16.36	976.93	16.86	976.39	17.36
977.47	16.37	976.92	16.87	976.38	17.37
977.46	16.38	976.91	16.88	976.37	17.38
977.45	16.39	976.90	16.89	976.36	17.39
977.44	16.40	976.89	16.90	976.35	17.40
977.43	16.41	976.88	16.91	976.34	17.41
977.42	16.42	976.87	16.92	976.33	17.42
977.41	16.43	976.86	16.93	976.32	17.43
977.40	16.44	976.85	16.94	976.31	17.44
977.38	16.45	976.84	16.95	976.30	17.45
977.37	16.46	976.83	16.96	976.29	17.46
977.36	16.47	976.82	16.97	976.28	17.47
977.35	16.48	976.81	16.98	976.27	17.48
977.34	16.49	976.80	16.99	976.26	17.49
977.33	16.50	976.79	17.00	976.25	17.50
977.32	16.51	976.78	17.01	976.24	17.51
977.31	16.52	976.77	17.02	976.23	17.52
977.30	16.53	976.76	17.03	976.22	17.53
977.29	16.54	976.75	17.04	976.21	17.54
977.28	16.55	976.74	17.05	976.20	17.55
977.26	16.56	976.72	17.06	976.18	17.56
977.25	16.57	976.71	17.07	976.17	17.57
977.24	16.58	976.70	17.08	976.16	17.58
977.23	16.59	976.69	17.09	976.15	17.59
977.22	16.60	976.68	17.10	976.14	17.60
977.21	16.61	976.67	17.11	976.13	17.61
977.20	16.62	976.66	17.12	976.12	17.62
977.19	16.63	976.65	17.13	976.11	17.63
977.18	16.64	976.64	17.14	976.10	17.64
977.16	16.65	976.62	17.15	976.08	17.65
977.15	16.66	976.61	17.16	976.07	17.66
977.14	16.67	976.60	17.17	976.06	17.67
977.13	16.68	976.59	17.18	976.05	17.68
977.12	16.69	976.58	17.19	976.04	17.69
977.11	16.70	976.57	17.20	976.03	17.70
977.10	16.71	976.56	17.21	976.02	17.71
977.09	16.72	976.55	17.22	976.01	17.72
977.08	16.73	976.54	17.23	976.00	17.73
977.07	16.74	976.53	17.24	975.99	17.74
977.06	16.75	976.52	17.25	975.98	17.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
975.96	17.76	975.42	18.26	974.89	18.76
975.95	17.77	975.41	18.27	974.88	18.77
975.94	17.78	975.40	18.28	974.87	18.78
975.93	17.79	975.39	18.29	974.86	18.79
975.92	17.80	975.38	18.30	974.85	18.80
975.91	17.81	975.37	18.31	974.84	18.81
975.90	17.82	975.36	18.32	974.83	18.82
975.89	17.83	975.35	18.33	974.82	18.83
975.88	17.84	975.34	18.34	974.81	18.84
975.86	17.85	975.33	18.35	974.80	18.85
975.85	17.86	975.32	18.36	974.78	18.86
975.84	17.87	975.31	18.37	974.77	18.87
975.83	17.88	975.30	18.38	974.76	18.88
975.82	17.89	975.29	18.39	974.75	18.89
975.81	17.90	975.28	18.40	974.74	18.90
975.80	17.91	975.27	18.41	974.73	18.91
975.79	17.92	975.26	18.42	974.72	18.92
975.78	17.93	975.25	18.43	974.71	18.93
975.77	17.94	975.24	18.44	974.70	18.94
975.76	17.95	975.22	18.45	974.68	18.95
975.75	17.96	975.21	18.46	974.67	18.96
975.74	17.97	975.20	18.47	974.66	18.97
975.73	17.98	975.19	18.48	974.65	18.98
975.72	17.99	975.18	18.49	974.64	18.99
975.71	18.00	975.17	18.50	974.63	19.00
975.70	18.01	975.16	18.51	974.62	19.01
975.69	18.02	975.15	18.52	974.61	19.02
975.68	18.03	975.14	18.53	974.60	19.03
975.67	18.04	975.13	18.54	974.59	19.04
975.66	18.05	975.12	18.55	974.58	19.05
975.64	18.06	975.10	18.56	974.56	19.06
975.63	18.07	975.09	18.57	974.55	19.07
975.62	18.08	975.08	18.58	974.54	19.08
975.61	18.09	975.07	18.59	974.53	19.09
975.60	18.10	975.06	18.60	974.52	19.10
975.59	18.11	975.05	18.61	974.51	19.11
975.58	18.12	975.04	18.62	974.50	19.12
975.57	18.13	975.03	18.63	974.49	19.13
975.56	18.14	975.02	18.64	974.48	19.14
975.54	18.15	975.00	18.65	974.47	19.15
975.53	18.16	974.99	18.66	974.46	19.16
975.52	18.17	974.98	18.67	974.45	19.17
975.51	18.18	974.97	18.68	974.44	19.18
975.50	18.19	974.96	18.69	974.43	19.19
975.49	18.20	974.95	18.70	974.42	19.20
975.48	18.21	974.94	18.71	974.41	19.21
975.47	18.22	974.93	18.72	974.40	19.22
975.46	18.23	974.92	18.73	974.39	19.23
975.45	18.24	974.91	18.74	974.38	19.24
975.44	18.25	974.90	18.75	974.36	19.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
974.35	19.26	973.81	19.76	973.28	20.26
974.34	19.27	973.80	19.77	973.27	20.27
974.33	19.28	973.79	19.78	973.26	20.28
974.32	19.29	973.78	19.79	973.25	20.29
974.31	19.30	973.77	19.80	973.24	20.30
974.30	19.31	973.76	19.81	973.23	20.31
974.29	19.32	973.75	19.82	973.22	20.32
974.28	19.33	973.74	19.83	973.21	20.33
974.27	19.34	973.73	19.84	973.20	20.34
974.26	19.35	973.72	19.85	973.18	20.35
974.24	19.36	973.70	19.86	973.17	20.36
974.23	19.37	973.69	19.87	973.16	20.37
974.22	19.38	973.68	19.88	973.15	20.38
974.21	19.39	973.67	19.89	973.14	20.39
974.20	19.40	973.66	19.90	973.13	20.40
974.19	19.41	973.65	19.91	973.12	20.41
974.18	19.42	973.64	19.92	973.11	20.42
974.17	19.43	973.63	19.93	973.10	20.43
974.16	19.44	973.62	19.94	973.09	20.44
974.14	19.45	973.61	19.95	973.08	20.45
974.13	19.46	973.60	19.96	973.06	20.46
974.12	19.47	973.59	19.97	973.05	20.47
974.11	19.48	973.58	19.98	973.04	20.48
974.10	19.49	973.57	19.99	973.03	20.49
974.09	19.50	973.56	20.00	973.02	20.50
974.08	19.51	973.55	20.01	973.01	20.51
974.07	19.52	973.54	20.02	973.00	20.52
974.06	19.53	973.53	20.03	972.99	20.53
974.05	19.54	973.52	20.04	972.98	20.54
974.04	19.55	973.50	20.05	972.96	20.55
974.03	19.56	973.49	20.06	972.95	20.56
974.02	19.57	973.48	20.07	972.94	20.57
974.01	19.58	973.47	20.08	972.93	20.58
974.00	19.59	973.46	20.09	972.92	20.59
973.99	19.60	973.45	20.10	972.91	20.60
973.98	19.61	973.44	20.11	972.90	20.61
973.97	19.62	973.43	20.12	972.89	20.62
973.96	19.63	973.42	20.13	972.88	20.63
973.95	19.64	973.41	20.14	972.87	20.64
973.94	19.65	973.40	20.15	972.86	20.65
973.92	19.66	973.38	20.16	972.84	20.66
973.91	19.67	973.37	20.17	972.83	20.67
973.90	19.68	973.36	20.18	972.82	20.68
973.89	19.69	973.35	20.19	972.81	20.69
973.88	19.70	973.34	20.20	972.80	20.70
973.87	19.71	973.33	20.21	972.79	20.71
973.86	19.72	973.32	20.22	972.78	20.72
973.85	19.73	973.31	20.23	972.77	20.73
973.84	19.74	973.30	20.24	972.76	20.74
973.82	19.75	973.29	20.25	972.75	20.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
972.74	20.76	972.20	21.26	971.66	21.76
972.73	20.77	972.19	21.27	971.65	21.77
972.72	20.78	972.18	21.28	971.64	21.78
972.71	20.79	972.17	21.29	971.63	21.79
972.70	20.80	972.16	21.30	971.62	21.80
972.69	20.81	972.15	21.31	971.61	21.81
972.68	20.82	972.14	21.32	971.60	21.82
972.67	20.83	972.13	21.33	971.59	21.83
972.66	20.84	972.12	21.34	971.58	21.84
972.64	20.85	972.10	21.35	971.56	21.85
972.63	20.86	972.09	21.36	971.55	21.86
972.62	20.87	972.08	21.37	971.54	21.87
972.61	20.88	972.07	21.38	971.53	21.88
972.60	20.89	972.06	21.39	971.52	21.89
972.59	20.90	972.05	21.40	971.51	21.90
972.58	20.91	972.04	21.41	971.50	21.91
972.57	20.92	972.03	21.42	971.49	21.92
972.56	20.93	972.02	21.43	971.48	21.93
972.55	20.94	972.01	21.44	971.47	21.94
972.54	20.95	972.00	21.45	971.46	21.95
972.52	20.96	971.98	21.46	971.44	21.96
972.51	20.97	971.97	21.47	971.43	21.97
972.50	20.98	971.96	21.48	971.42	21.98
972.49	20.99	971.95	21.49	971.41	21.99
972.48	21.00	971.94	21.50	971.40	22.00
972.47	21.01	971.93	21.51	971.39	22.01
972.46	21.02	971.92	21.52	971.38	22.02
972.45	21.03	971.91	21.53	971.37	22.03
972.44	21.04	971.90	21.54	971.36	22.04
972.42	21.05	971.89	21.55	971.34	22.05
972.41	21.06	971.87	21.56	971.33	22.06
972.40	21.07	971.86	21.57	971.32	22.07
972.39	21.08	971.85	21.58	971.31	22.08
972.38	21.09	971.84	21.59	971.30	22.09
972.37	21.10	971.83	21.60	971.29	22.10
972.36	21.11	971.82	21.61	971.28	22.11
972.35	21.12	971.81	21.62	971.27	22.12
972.34	21.13	971.80	21.63	971.26	22.13
972.33	21.14	971.79	21.64	971.25	22.14
972.32	21.15	971.78	21.65	971.24	22.15
972.31	21.16	971.77	21.66	971.22	22.16
972.30	21.17	971.76	21.67	971.21	22.17
972.29	21.18	971.75	21.68	971.20	22.18
972.28	21.19	971.74	21.69	971.19	22.19
972.27	21.20	971.73	21.70	971.18	22.20
972.26	21.21	971.72	21.71	971.17	22.21
972.25	21.22	971.71	21.72	971.16	22.22
972.24	21.23	971.70	21.73	971.15	22.23
972.23	21.24	971.69	21.74	971.14	22.24
972.22	21.25	971.68	21.75	971.13	22.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
971.12	22.26	970.57	22.76	970.02	23.26
971.11	22.27	970.56	22.77	970.01	23.27
971.10	22.28	970.55	22.78	970.00	23.28
971.09	22.29	970.54	22.79	969.99	23.29
971.08	22.30	970.53	22.80	969.98	23.30
971.07	22.31	970.52	22.81	969.97	23.31
971.06	22.32	970.51	22.82	969.96	23.32
971.05	22.33	970.50	22.83	969.95	23.33
971.04	22.34	970.49	22.84	969.94	23.34
971.02	22.35	970.48	22.85	969.92	23.35
971.01	22.36	970.46	22.86	969.91	23.36
971.00	22.37	970.45	22.87	969.90	23.37
970.99	22.38	970.44	22.88	969.89	23.38
970.98	22.39	970.43	22.89	969.88	23.39
970.97	22.40	970.42	22.90	969.87	23.40
970.96	22.41	970.41	22.91	969.86	23.41
970.95	22.42	970.40	22.92	969.85	23.42
970.94	22.43	970.39	22.93	969.84	23.43
970.93	22.44	970.38	22.94	969.83	23.44
970.92	22.45	970.36	22.95	969.82	23.45
970.90	22.46	970.35	22.96	969.80	23.46
970.89	22.47	970.34	22.97	969.79	23.47
970.88	22.48	970.33	22.98	969.78	23.48
970.87	22.49	970.32	22.99	969.77	23.49
970.86	22.50	970.31	23.00	969.76	23.50
970.85	22.51	970.30	23.01	969.75	23.51
970.84	22.52	970.29	23.02	969.74	23.52
970.83	22.53	970.28	23.03	969.73	23.53
970.82	22.54	970.27	23.04	969.72	23.54
970.80	22.55	970.25	23.05	969.70	23.55
970.79	22.56	970.24	23.06	969.69	23.56
970.78	22.57	970.23	23.07	969.68	23.57
970.77	22.58	970.22	23.08	969.67	23.58
970.76	22.59	970.21	23.09	969.66	23.59
970.75	22.60	970.20	23.10	969.65	23.60
970.74	22.61	970.19	23.11	969.64	23.61
970.73	22.62	970.18	23.12	969.63	23.62
970.72	22.63	970.17	23.13	969.62	23.63
970.71	22.64	970.16	23.14	969.61	23.64
970.70	22.65	970.14	23.15	969.60	23.65
970.68	22.66	970.13	23.16	969.58	23.66
970.67	22.67	970.12	23.17	969.57	23.67
970.66	22.68	970.11	23.18	969.56	23.68
970.65	22.69	970.10	23.19	969.55	23.69
970.64	22.70	970.09	23.20	969.54	23.70
970.63	22.71	970.08	23.21	969.53	23.71
970.62	22.72	970.07	23.22	969.52	23.72
970.61	22.73	970.06	23.23	969.51	23.73
970.60	22.74	970.05	23.24	969.50	23.74
970.58	22.75	970.04	23.25	969.48	23.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
969.47	23.76	968.92	24.26	968.36	24.76
969.46	23.77	968.91	24.27	968.35	24.77
969.45	23.78	968.90	24.28	968.34	24.78
969.44	23.79	968.89	24.29	968.33	24.79
969.43	23.80	968.88	24.30	968.32	24.80
969.42	23.81	968.87	24.31	968.31	24.81
969.41	23.82	968.86	24.32	968.30	24.82
969.40	23.83	968.85	24.33	968.29	24.83
969.39	23.84	968.84	24.34	968.28	24.84
969.38	23.85	968.82	24.35	968.26	24.85
969.36	23.86	968.81	24.36	968.25	24.86
969.35	23.87	968.80	24.37	968.24	24.87
969.34	23.88	968.79	24.38	968.23	24.88
969.33	23.89	968.78	24.39	968.22	24.89
969.32	23.90	968.77	24.40	968.21	24.90
969.31	23.91	968.76	24.41	968.20	24.91
969.30	23.92	968.75	24.42	968.19	24.92
969.29	23.93	968.74	24.43	968.18	24.93
969.28	23.94	968.73	24.44	968.17	24.94
969.26	23.95	968.72	24.45	968.16	24.95
969.25	23.96	968.70	24.46	968.14	24.96
969.24	23.97	968.69	24.47	968.13	24.97
969.23	23.98	968.68	24.48	968.12	24.98
969.22	23.99	968.67	24.49	968.11	24.99
969.21	24.00	968.66	24.50	968.10	25.00
969.20	24.01	968.65	24.51	968.09	25.01
969.19	24.02	968.64	24.52	968.08	25.02
969.18	24.03	968.63	24.53	968.07	25.03
969.17	24.04	968.62	24.54	968.06	25.04
969.16	24.05	968.60	24.55	968.04	25.05
969.14	24.06	968.59	24.56	968.03	25.06
969.13	24.07	968.58	24.57	968.02	25.07
969.12	24.08	968.57	24.58	968.01	25.08
969.11	24.09	968.56	24.59	968.00	25.09
969.10	24.10	968.55	24.60	967.99	25.10
969.09	24.11	968.54	24.61	967.98	25.11
969.08	24.12	968.53	24.62	967.97	25.12
969.07	24.13	968.51	24.63	967.95	25.13
969.06	24.14	968.50	24.64	967.94	25.14
969.04	24.15	968.49	24.65	967.93	25.15
969.03	24.16	968.48	24.66	967.92	25.16
969.02	24.17	968.47	24.67	967.91	25.17
969.01	24.18	968.45	24.68	967.89	25.18
969.00	24.19	968.44	24.69	967.88	25.19
968.99	24.20	968.43	24.70	967.87	25.20
968.98	24.21	968.42	24.71	967.86	25.21
968.97	24.22	968.41	24.72	967.85	25.22
968.96	24.23	968.40	24.73	967.84	25.23
968.95	24.24	968.39	24.74	967.83	25.24
968.94	24.25	968.38	24.75	967.82	25.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
967.80	25.26	967.24	25.76	966.67	26.26
967.79	25.27	967.23	25.77	966.66	26.27
967.78	25.28	967.21	25.78	966.64	26.28
967.77	25.29	967.20	25.79	966.63	26.29
967.76	25.30	967.19	25.80	966.62	26.30
967.75	25.31	967.18	25.81	966.61	26.31
967.74	25.32	967.17	25.82	966.60	26.32
967.73	25.33	967.16	25.83	966.59	26.33
967.72	25.34	967.15	25.84	966.58	26.34
967.70	25.35	967.14	25.85	966.56	26.35
967.69	25.36	967.12	25.86	966.55	26.36
967.68	25.37	967.11	25.87	966.54	26.37
967.67	25.38	967.10	25.88	966.53	26.38
967.66	25.39	967.09	25.89	966.52	26.39
967.65	25.40	967.08	25.90	966.51	26.40
967.64	25.41	967.07	25.91	966.50	26.41
967.63	25.42	967.06	25.92	966.49	26.42
967.61	25.43	967.05	25.93	966.47	26.43
967.60	25.44	967.04	25.94	966.46	26.44
967.59	25.45	967.02	25.95	966.45	26.45
967.58	25.46	967.01	25.96	966.44	26.46
967.57	25.47	967.00	25.97	966.43	26.47
967.55	25.48	966.99	25.98	966.41	26.48
967.54	25.49	966.98	25.99	966.40	26.49
967.53	25.50	966.97	26.00	966.39	26.50
967.52	25.51	966.96	26.01	966.38	26.51
967.51	25.52	966.95	26.02	966.37	26.52
967.50	25.53	966.93	26.03	966.36	26.53
967.49	25.54	966.92	26.04	966.35	26.54
967.48	25.55	966.91	26.05	966.34	26.55
967.46	25.56	966.90	26.06	966.32	26.56
967.45	25.57	966.89	26.07	966.31	26.57
967.44	25.58	966.87	26.08	966.30	26.58
967.43	25.59	966.86	26.09	966.29	26.59
967.42	25.60	966.85	26.10	966.28	26.60
967.41	25.61	966.84	26.11	966.27	26.61
967.40	25.62	966.83	26.12	966.26	26.62
967.39	25.63	966.82	26.13	966.24	26.63
967.38	25.64	966.81	26.14	966.23	26.64
967.36	25.65	966.80	26.15	966.22	26.65
967.35	25.66	966.78	26.16	966.21	26.66
967.34	25.67	966.77	26.17	966.20	26.67
967.33	25.68	966.76	26.18	966.18	26.68
967.32	25.69	966.75	26.19	966.17	26.69
967.31	25.70	966.74	26.20	966.16	26.70
967.30	25.71	966.73	26.21	966.15	26.71
967.29	25.72	966.72	26.22	966.14	26.72
967.27	25.73	966.70	26.23	966.13	26.73
967.26	25.74	966.69	26.24	966.12	26.74
967.25	25.75	966.68	26.25	966.10	26.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
966.09	26.76	965.51	27.26	964.92	27.76
966.08	26.77	965.50	27.27	964.91	27.77
966.07	26.78	965.48	27.28	964.90	27.78
966.06	26.79	965.47	27.29	964.89	27.79
966.05	26.80	965.46	27.30	964.88	27.80
966.04	26.81	965.45	27.31	964.87	27.81
966.03	26.82	965.44	27.32	964.86	27.82
966.01	26.83	965.43	27.33	964.84	27.83
966.00	26.84	965.42	27.34	964.83	27.84
965.99	26.85	965.40	27.35	964.82	27.85
965.98	26.86	965.39	27.36	964.81	27.86
965.97	26.87	965.38	27.37	964.80	27.87
965.95	26.88	965.37	27.38	964.78	27.88
965.94	26.89	965.36	27.39	964.77	27.89
965.93	26.90	965.35	27.40	964.76	27.90
965.92	26.91	965.34	27.41	964.75	27.91
965.91	26.92	965.33	27.42	964.74	27.92
965.89	26.93	965.31	27.43	964.72	27.93
965.88	26.94	965.30	27.44	964.71	27.94
965.87	26.95	965.29	27.45	964.70	27.95
965.86	26.96	965.28	27.46	964.69	27.96
965.85	26.97	965.27	27.47	964.68	27.97
965.83	26.98	965.25	27.48	964.66	27.98
965.82	26.99	965.24	27.49	964.65	27.99
965.81	27.00	965.23	27.50	964.64	28.00
965.80	27.01	965.22	27.51	964.63	28.01
965.79	27.02	965.21	27.52	964.62	28.02
965.78	27.03	965.19	27.53	964.60	28.03
965.77	27.04	965.18	27.54	964.59	28.04
965.76	27.05	965.17	27.55	964.58	28.05
965.74	27.06	965.16	27.56	964.57	28.06
965.73	27.07	965.15	27.57	964.56	28.07
965.72	27.08	965.13	27.58	964.54	28.08
965.71	27.09	965.12	27.59	964.53	28.09
965.70	27.10	965.11	27.60	964.52	28.10
965.69	27.11	965.10	27.61	964.51	28.11
965.68	27.12	965.09	27.62	964.50	28.12
965.66	27.13	965.07	27.63	964.48	28.13
965.65	27.14	965.06	27.64	964.47	28.14
965.64	27.15	965.05	27.65	964.46	28.15
965.63	27.16	965.04	27.66	964.45	28.16
965.62	27.17	965.03	27.67	964.44	28.17
965.60	27.18	965.01	27.68	964.42	28.18
965.59	27.19	965.00	27.69	964.41	28.19
965.58	27.20	964.99	27.70	964.40	28.20
965.57	27.21	964.98	27.71	964.39	28.21
965.56	27.22	964.97	27.72	964.38	28.22
965.54	27.23	964.96	27.73	964.36	28.23
965.53	27.24	964.95	27.74	964.35	28.24
965.52	27.25	964.94	27.75	964.34	28.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
964.33	28.26	963.73	28.76	963.12	29.26
964.32	28.27	963.72	28.77	963.11	29.27
964.30	28.28	963.70	28.78	963.10	29.28
964.29	28.29	963.69	28.79	963.08	29.29
964.28	28.30	963.68	28.80	963.07	29.30
964.27	28.31	963.67	28.81	963.06	29.31
964.26	28.32	963.66	28.82	963.05	29.32
964.24	28.33	963.64	28.83	963.03	29.33
964.23	28.34	963.63	28.84	963.02	29.34
964.22	28.35	963.62	28.85	963.01	29.35
964.21	28.36	963.61	28.86	963.00	29.36
964.20	28.37	963.60	28.87	962.99	29.37
964.18	28.38	963.58	28.88	962.97	29.38
964.17	28.39	963.57	28.89	962.96	29.39
964.16	28.40	963.56	28.90	962.95	29.40
964.15	28.41	963.55	28.91	962.94	29.41
964.14	28.42	963.54	28.92	962.93	29.42
964.12	28.43	963.52	28.93	962.91	29.43
964.11	28.44	963.51	28.94	962.90	29.44
964.10	28.45	963.50	28.95	962.89	29.45
964.09	28.46	963.49	28.96	962.88	29.46
964.08	28.47	963.48	28.97	962.87	29.47
964.06	28.48	963.46	28.98	962.85	29.48
964.05	28.49	963.45	28.99	962.84	29.49
964.04	28.50	963.44	29.00	962.83	29.50
964.03	28.51	963.43	29.01	962.82	29.51
964.02	28.52	963.42	29.02	962.81	29.52
964.00	28.53	963.40	29.03	962.79	29.53
963.99	28.54	963.39	29.04	962.78	29.54
963.98	28.55	963.38	29.05	962.77	29.55
963.97	28.56	963.37	29.06	962.76	29.56
963.96	28.57	963.36	29.07	962.75	29.57
963.94	28.58	963.34	29.08	962.73	29.58
963.93	28.59	963.33	29.09	962.72	29.59
963.92	28.60	963.32	29.10	962.71	29.60
963.91	28.61	963.31	29.11	962.70	29.61
963.90	28.62	963.30	29.12	962.68	29.62
963.88	28.63	963.28	29.13	962.67	29.63
963.87	28.64	963.27	29.14	962.66	29.64
963.86	28.65	963.26	29.15	962.64	29.65
963.85	28.66	963.25	29.16	962.63	29.66
963.84	28.67	963.24	29.17	962.62	29.67
963.82	28.68	963.22	29.18	962.61	29.68
963.81	28.69	963.21	29.19	962.59	29.69
963.80	28.70	963.20	29.20	962.58	29.70
963.79	28.71	963.19	29.21	962.57	29.71
963.78	28.72	963.17	29.22	962.56	29.72
963.76	28.73	963.16	29.23	962.54	29.73
963.75	28.74	963.15	29.24	962.53	29.74
963.74	28.75	963.14	29.25	962.52	29.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
962.51	29.76	961.89	30.26	961.26	30.76
962.50	29.77	961.88	30.27	961.25	30.77
962.48	29.78	961.86	30.28	961.23	30.78
962.47	29.79	961.85	30.29	961.22	30.79
962.46	29.80	961.84	30.30	961.21	30.80
962.45	29.81	961.83	30.31	961.20	30.81
962.43	29.82	961.81	30.32	961.18	30.82
962.42	29.83	961.80	30.33	961.17	30.83
962.41	29.84	961.79	30.34	961.16	30.84
962.40	29.85	961.78	30.35	961.14	30.85
962.38	29.86	961.76	30.36	961.13	30.86
962.37	29.87	961.75	30.37	961.12	30.87
962.36	29.88	961.74	30.38	961.11	30.88
962.34	29.89	961.72	30.39	961.09	30.89
962.33	29.90	961.71	30.40	961.08	30.90
962.32	29.91	961.70	30.41	961.07	30.91
962.31	29.92	961.69	30.42	961.05	30.92
962.29	29.93	961.67	30.43	961.04	30.93
962.28	29.94	961.66	30.44	961.03	30.94
962.27	29.95	961.65	30.45	961.02	30.95
962.26	29.96	961.64	30.46	961.00	30.96
962.25	29.97	961.63	30.47	960.99	30.97
962.23	29.98	961.61	30.48	960.98	30.98
962.22	29.99	961.60	30.49	960.96	30.99
962.21	30.00	961.59	30.50	960.95	31.00
962.20	30.01	961.58	30.51	960.94	31.01
962.19	30.02	961.56	30.52	960.92	31.02
962.17	30.03	961.55	30.53	960.91	31.03
962.16	30.04	961.54	30.54	960.90	31.04
962.15	30.05	961.52	30.55	960.88	31.05
962.14	30.06	961.51	30.56	960.87	31.06
962.13	30.07	961.50	30.57	960.86	31.07
962.11	30.08	961.49	30.58	960.85	31.08
962.10	30.09	961.47	30.59	960.83	31.09
962.09	30.10	961.46	30.60	960.82	31.10
962.08	30.11	961.45	30.61	960.81	31.11
962.06	30.12	961.43	30.62	960.80	31.12
962.05	30.13	961.42	30.63	960.78	31.13
962.04	30.14	961.41	30.64	960.77	31.14
962.02	30.15	961.40	30.65	960.76	31.15
962.01	30.16	961.38	30.66	960.75	31.16
962.00	30.17	961.37	30.67	960.74	31.17
961.99	30.18	961.36	30.68	960.72	31.18
961.97	30.19	961.34	30.69	960.71	31.19
961.96	30.20	961.33	30.70	960.70	31.20
961.95	30.21	961.32	30.71	960.69	31.21
961.94	30.22	961.31	30.72	960.67	31.22
961.92	30.23	961.29	30.73	960.66	31.23
961.91	30.24	961.28	30.74	960.65	31.24
961.90	30.25	961.27	30.75	960.64	31.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
960.62	31.26	959.97	31.76	959.32	32.26
960.61	31.27	959.96	31.77	959.31	32.27
960.60	31.28	959.95	31.78	959.30	32.28
960.58	31.29	959.93	31.79	959.28	32.29
960.57	31.30	959.92	31.80	959.27	32.30
960.56	31.31	959.91	31.81	959.26	32.31
960.54	31.32	959.89	31.82	959.24	32.32
960.53	31.33	959.88	31.83	959.23	32.33
960.52	31.34	959.87	31.84	959.22	32.34
960.50	31.35	959.86	31.85	959.20	32.35
960.49	31.36	959.84	31.86	959.19	32.36
960.48	31.37	959.83	31.87	959.18	32.37
960.47	31.38	959.82	31.88	959.17	32.38
960.45	31.39	959.80	31.89	959.15	32.39
960.44	31.40	959.79	31.90	959.14	32.40
960.43	31.41	959.78	31.91	959.13	32.41
960.41	31.42	959.76	31.92	959.11	32.42
960.40	31.43	959.75	31.93	959.10	32.43
960.39	31.44	959.74	31.94	959.09	32.44
960.38	31.45	959.72	31.95	959.08	32.45
960.36	31.46	959.71	31.96	959.06	32.46
960.35	31.47	959.70	31.97	959.05	32.47
960.34	31.48	959.69	31.98	959.04	32.48
960.32	31.49	959.67	31.99	959.02	32.49
960.31	31.50	959.66	32.00	959.01	32.50
960.30	31.51	959.65	32.01	959.00	32.51
960.28	31.52	959.63	32.02	958.98	32.52
960.27	31.53	959.62	32.03	958.97	32.53
960.26	31.54	959.61	32.04	958.95	32.54
960.24	31.55	959.60	32.05	958.94	32.55
960.23	31.56	959.58	32.06	958.93	32.56
960.22	31.57	959.57	32.07	958.91	32.57
960.21	31.58	959.56	32.08	958.90	32.58
960.19	31.59	959.54	32.09	958.88	32.59
960.18	31.60	959.53	32.10	958.87	32.60
960.17	31.61	959.52	32.11	958.86	32.61
960.15	31.62	959.50	32.12	958.84	32.62
960.14	31.63	959.49	32.13	958.83	32.63
960.13	31.64	959.48	32.14	958.82	32.64
960.12	31.65	959.46	32.15	958.80	32.65
960.10	31.66	959.45	32.16	958.79	32.66
960.09	31.67	959.44	32.17	958.78	32.67
960.08	31.68	959.43	32.18	958.77	32.68
960.06	31.69	959.41	32.19	958.75	32.69
960.05	31.70	959.40	32.20	958.74	32.70
960.04	31.71	959.39	32.21	958.73	32.71
960.02	31.72	959.37	32.22	958.71	32.72
960.01	31.73	959.36	32.23	958.70	32.73
960.00	31.74	959.35	32.24	958.69	32.74
959.98	31.75	959.34	32.25	958.68	32.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
958.66	32.76	957.99	33.26	957.31	33.76
958.65	32.77	957.98	33.27	957.30	33.77
958.64	32.78	957.97	33.28	957.29	33.78
958.62	32.79	957.95	33.29	957.27	33.79
958.61	32.80	957.94	33.30	957.26	33.80
958.60	32.81	957.93	33.31	957.25	33.81
958.58	32.82	957.91	33.32	957.23	33.82
958.57	32.83	957.90	33.33	957.22	33.83
958.55	32.84	957.88	33.34	957.20	33.84
958.54	32.85	957.87	33.35	957.19	33.85
958.53	32.86	957.86	33.36	957.18	33.86
958.51	32.87	957.84	33.37	957.16	33.87
958.50	32.88	957.83	33.38	957.15	33.88
958.48	32.89	957.81	33.39	957.13	33.89
958.47	32.90	957.80	33.40	957.12	33.90
958.46	32.91	957.79	33.41	957.11	33.91
958.44	32.92	957.77	33.42	957.09	33.92
958.43	32.93	957.76	33.43	957.08	33.93
958.42	32.94	957.74	33.44	957.06	33.94
958.40	32.95	957.73	33.45	957.05	33.95
958.39	32.96	957.72	33.46	957.04	33.96
958.38	32.97	957.70	33.47	957.02	33.97
958.37	32.98	957.69	33.48	957.01	33.98
958.35	32.99	957.67	33.49	956.99	33.99
958.34	33.00	957.66	33.50	956.98	34.00
958.33	33.01	957.65	33.51	956.97	34.01
958.31	33.02	957.63	33.52	956.95	34.02
958.30	33.03	957.62	33.53	956.94	34.03
958.28	33.04	957.61	33.54	956.92	34.04
958.27	33.05	957.60	33.55	956.91	34.05
958.26	33.06	957.58	33.56	956.90	34.06
958.24	33.07	957.57	33.57	956.88	34.07
958.23	33.08	957.56	33.58	956.87	34.08
958.21	33.09	957.54	33.59	956.85	34.09
958.20	33.10	957.53	33.60	956.84	34.10
958.19	33.11	957.52	33.61	956.83	34.11
958.17	33.12	957.50	33.62	956.81	34.12
958.16	33.13	957.49	33.63	956.80	34.13
958.15	33.14	957.47	33.64	956.78	34.14
958.14	33.15	957.46	33.65	956.77	34.15
958.12	33.16	957.45	33.66	956.76	34.16
958.11	33.17	957.43	33.67	956.74	34.17
958.10	33.18	957.42	33.68	956.73	34.18
958.08	33.19	957.40	33.69	956.71	34.19
958.07	33.20	957.39	33.70	956.70	34.20
958.06	33.21	957.38	33.71	956.69	34.21
958.04	33.22	957.36	33.72	956.67	34.22
958.03	33.23	957.35	33.73	956.66	34.23
958.02	33.24	957.34	33.74	956.65	34.24
958.00	33.25	957.32	33.75	956.64	34.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
956.62	34.26	955.93	34.76	955.22	35.26
956.61	34.27	955.91	34.77	955.20	35.27
956.60	34.28	955.90	34.78	955.19	35.28
956.58	34.29	955.88	34.79	955.17	35.29
956.57	34.30	955.87	34.80	955.16	35.30
956.56	34.31	955.86	34.81	955.15	35.31
956.54	34.32	955.84	34.82	955.13	35.32
956.53	34.33	955.83	34.83	955.12	35.33
956.51	34.34	955.81	34.84	955.10	35.34
956.50	34.35	955.80	34.85	955.09	35.35
956.49	34.36	955.79	34.86	955.08	35.36
956.47	34.37	955.77	34.87	955.06	35.37
956.46	34.38	955.76	34.88	955.05	35.38
956.44	34.39	955.74	34.89	955.03	35.39
956.43	34.40	955.73	34.90	955.02	35.40
956.42	34.41	955.72	34.91	955.01	35.41
956.40	34.42	955.70	34.92	954.99	35.42
956.39	34.43	955.69	34.93	954.98	35.43
956.37	34.44	955.67	34.94	954.96	35.44
956.36	34.45	955.66	34.95	954.95	35.45
956.35	34.46	955.65	34.96	954.94	35.46
956.33	34.47	955.63	34.97	954.92	35.47
956.32	34.48	955.62	34.98	954.91	35.48
956.30	34.49	955.60	34.99	954.89	35.49
956.29	34.50	955.59	35.00	954.88	35.50
956.28	34.51	955.58	35.01	954.86	35.51
956.26	34.52	955.56	35.02	954.85	35.52
956.25	34.53	955.54	35.03	954.84	35.53
956.23	34.54	955.53	35.04	954.82	35.54
956.22	34.55	955.52	35.05	954.80	35.55
956.21	34.56	955.50	35.06	954.79	35.56
956.19	34.57	955.48	35.07	954.78	35.57
956.18	34.58	955.47	35.08	954.76	35.58
956.16	34.59	955.46	35.09	954.74	35.59
956.15	34.60	955.44	35.10	954.73	35.60
956.14	34.61	955.43	35.11	954.72	35.61
956.12	34.62	955.41	35.12	954.70	35.62
956.11	34.63	955.40	35.13	954.69	35.63
956.09	34.64	955.38	35.14	954.67	35.64
956.08	34.65	955.37	35.15	954.66	35.65
956.07	34.66	955.36	35.16	954.65	35.66
956.05	34.67	955.34	35.17	954.63	35.67
956.04	34.68	955.33	35.18	954.62	35.68
956.02	34.69	955.31	35.19	954.60	35.69
956.01	34.70	955.30	35.20	954.59	35.70
956.00	34.71	955.29	35.21	954.58	35.71
955.98	34.72	955.27	35.22	954.56	35.72
955.97	34.73	955.26	35.23	954.54	35.73
955.95	34.74	955.24	35.24	954.53	35.74
955.94	34.75	955.23	35.25	954.52	35.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
954.50	35.76	953.78	36.26	953.04	36.76
954.48	35.77	953.76	36.27	953.02	36.77
954.47	35.78	953.75	36.28	953.01	36.78
954.46	35.79	953.73	36.29	953.00	36.79
954.44	35.80	953.72	36.30	952.98	36.80
954.43	35.81	953.70	36.31	952.96	36.81
954.41	35.82	953.69	36.32	952.95	36.82
954.40	35.83	953.68	36.33	952.94	36.83
954.38	35.84	953.66	36.34	952.92	36.84
954.37	35.85	953.64	36.35	952.90	36.85
954.36	35.86	953.63	36.36	952.89	36.86
954.34	35.87	953.62	36.37	952.88	36.87
954.33	35.88	953.60	36.38	952.86	36.88
954.31	35.89	953.58	36.39	952.84	36.89
954.30	35.90	953.57	36.40	952.83	36.90
954.28	35.91	953.56	36.41	952.82	36.91
954.27	35.92	953.54	36.42	952.80	36.92
954.26	35.93	953.52	36.43	952.79	36.93
954.24	35.94	953.51	36.44	952.77	36.94
954.22	35.95	953.50	36.45	952.76	36.95
954.21	35.96	953.48	36.46	952.75	36.96
954.20	35.97	953.46	36.47	952.73	36.97
954.18	35.98	953.45	36.48	952.72	36.98
954.16	35.99	953.44	36.49	952.70	36.99
954.15	36.00	953.42	36.50	952.69	37.00
954.14	36.01	953.41	36.51	952.68	37.01
954.12	36.02	953.39	36.52	952.66	37.02
954.11	36.03	953.38	36.53	952.64	37.03
954.09	36.04	953.36	36.54	952.63	37.04
954.08	36.05	953.35	36.55	952.62	37.05
954.07	36.06	953.34	36.56	952.60	37.06
954.05	36.07	953.32	36.57	952.58	37.07
954.04	36.08	953.31	36.58	952.57	37.08
954.02	36.09	953.29	36.59	952.56	37.09
954.01	36.10	953.28	36.60	952.54	37.10
954.00	36.11	953.26	36.61	952.52	37.11
953.98	36.12	953.25	36.62	952.51	37.12
953.96	36.13	953.24	36.63	952.50	37.13
953.95	36.14	953.22	36.64	952.48	37.14
953.94	36.15	953.20	36.65	952.46	37.15
953.92	36.16	953.19	36.66	952.45	37.16
953.90	36.17	953.18	36.67	952.44	37.17
953.89	36.18	953.16	36.68	952.42	37.18
953.88	36.19	953.14	36.69	952.40	37.19
953.86	36.20	953.13	36.70	952.39	37.20
953.85	36.21	953.12	36.71	952.38	37.21
953.83	36.22	953.10	36.72	952.36	37.22
953.82	36.23	953.08	36.73	952.34	37.23
953.80	36.24	953.07	36.74	952.33	37.24
953.79	36.25	953.06	36.75	952.32	37.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
952.30	37.26	951.54	37.76	950.78	38.26
952.28	37.27	951.52	37.77	950.76	38.27
952.27	37.28	951.51	37.78	950.75	38.28
952.26	37.29	951.50	37.79	950.74	38.29
952.24	37.30	951.48	37.80	950.72	38.30
952.22	37.31	951.46	37.81	950.70	38.31
952.21	37.32	951.45	37.82	950.69	38.32
952.20	37.33	951.44	37.83	950.67	38.33
952.18	37.34	951.42	37.84	950.66	38.34
952.16	37.35	951.40	37.85	950.64	38.35
952.15	37.36	951.39	37.86	950.62	38.36
952.14	37.37	951.38	37.87	950.61	38.37
952.12	37.38	951.36	37.88	950.59	38.38
952.10	37.39	951.34	37.89	950.58	38.39
952.09	37.40	951.33	37.90	950.56	38.40
952.08	37.41	951.32	37.91	950.54	38.41
952.06	37.42	951.30	37.92	950.53	38.42
952.04	37.43	951.28	37.93	950.52	38.43
952.03	37.44	951.27	37.94	950.50	38.44
952.02	37.45	951.26	37.95	950.48	38.45
952.00	37.46	951.24	37.96	950.47	38.46
951.98	37.47	951.22	37.97	950.46	38.47
951.97	37.48	951.21	37.98	950.44	38.48
951.96	37.49	951.20	37.99	950.42	38.49
951.94	37.50	951.18	38.00	950.41	38.50
951.92	37.51	951.16	38.01	950.39	38.51
951.91	37.52	951.15	38.02	950.38	38.52
951.90	37.53	951.13	38.03	950.36	38.53
951.88	37.54	951.12	38.04	950.35	38.54
951.86	37.55	951.10	38.05	950.33	38.55
951.85	37.56	951.08	38.06	950.31	38.56
951.84	37.57	951.07	38.07	950.30	38.57
951.82	37.58	951.05	38.08	950.28	38.58
951.80	37.59	951.04	38.09	950.27	38.59
951.79	37.60	951.02	38.10	950.25	38.60
951.77	37.61	951.00	38.11	950.24	38.61
951.76	37.62	950.99	38.12	950.22	38.62
951.74	37.63	950.98	38.13	950.20	38.63
951.73	37.64	950.96	38.14	950.19	38.64
951.71	37.65	950.94	38.15	950.18	38.65
951.69	37.66	950.93	38.16	950.16	38.66
951.68	37.67	950.92	38.17	950.14	38.67
951.66	37.68	950.90	38.18	950.13	38.68
951.65	37.69	950.88	38.19	950.12	38.69
951.63	37.70	950.87	38.20	950.10	38.70
951.62	37.71	950.86	38.21	950.08	38.71
951.60	37.72	950.84	38.22	950.07	38.72
951.58	37.73	950.82	38.23	950.05	38.73
951.57	37.74	950.81	38.24	950.04	38.74
951.56	37.75	950.80	38.25	950.02	38.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
950.00	38.76	949.22	39.26	948.43	39.76
949.99	38.77	949.21	39.27	948.42	39.77
949.97	38.78	949.19	39.28	948.40	39.78
949.96	38.79	949.18	39.29	948.38	39.79
949.94	38.80	949.16	39.30	948.37	39.80
949.92	38.81	949.14	39.31	948.35	39.81
949.91	38.82	949.13	39.32	948.34	39.82
949.90	38.83	949.11	39.33	948.32	39.83
949.88	38.84	949.10	39.34	948.31	39.84
949.86	38.85	949.08	39.35	948.29	39.85
949.85	38.86	949.06	39.36	948.27	39.86
949.84	38.87	949.05	39.37	948.26	39.87
949.82	38.88	949.03	39.38	948.24	39.88
949.80	38.89	949.02	39.39	948.23	39.89
949.79	38.90	949.00	39.40	948.21	39.90
949.77	38.91	948.98	39.41	948.19	39.91
949.76	38.92	948.97	39.42	948.18	39.92
949.74	38.93	948.95	39.43	948.16	39.93
949.73	38.94	948.94	39.44	948.15	39.94
949.71	38.95	948.92	39.45	948.13	39.95
949.69	38.96	948.90	39.46	948.11	39.96
949.68	38.97	948.89	39.47	948.10	39.97
949.66	38.98	948.87	39.48	948.08	39.98
949.65	38.99	948.86	39.49	948.07	39.99
949.63	39.00	948.84	39.50	948.05	40.00
949.61	39.01	948.82	39.51	948.03	40.01
949.60	39.02	948.81	39.52	948.02	40.02
949.58	39.03	948.79	39.53	948.00	40.03
949.57	39.04	948.78	39.54	947.98	40.04
949.55	39.05	948.76	39.55	947.96	40.05
949.53	39.06	948.74	39.56	947.95	40.06
949.52	39.07	948.73	39.57	947.93	40.07
949.50	39.08	948.71	39.58	947.91	40.08
949.49	39.09	948.70	39.59	947.90	40.09
949.47	39.10	948.68	39.60	947.88	40.10
949.46	39.11	948.66	39.61	947.86	40.11
949.44	39.12	948.65	39.62	947.85	40.12
949.42	39.13	948.63	39.63	947.83	40.13
949.41	39.14	948.62	39.64	947.82	40.14
949.40	39.15	948.60	39.65	947.80	40.15
949.38	39.16	948.58	39.66	947.78	40.16
949.36	39.17	948.57	39.67	947.77	40.17
949.35	39.18	948.55	39.68	947.75	40.18
949.34	39.19	948.54	39.69	947.74	40.19
949.32	39.20	948.52	39.70	947.72	40.20
949.30	39.21	948.50	39.71	947.70	40.21
949.29	39.22	948.49	39.72	947.69	40.22
949.27	39.23	948.48	39.73	947.67	40.23
949.26	39.24	948.46	39.74	947.66	40.24
949.24	39.25	948.44	39.75	947.64	40.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
947.62	40.26	946.81	40.76	945.99	41.26
947.61	40.27	946.80	40.77	945.98	41.27
947.59	40.28	946.78	40.78	945.96	41.28
947.58	40.29	946.77	40.79	945.95	41.29
947.56	40.30	946.75	40.80	945.93	41.30
947.54	40.31	946.73	40.81	945.91	41.31
947.53	40.32	946.72	40.82	945.90	41.32
947.51	40.33	946.70	40.83	945.88	41.33
947.50	40.34	946.68	40.84	945.86	41.34
947.48	40.35	946.66	40.85	945.84	41.35
947.46	40.36	946.65	40.86	945.83	41.36
947.45	40.37	946.63	40.87	945.81	41.37
947.43	40.38	946.61	40.88	945.79	41.38
947.42	40.39	946.60	40.89	945.78	41.39
947.40	40.40	946.58	40.90	945.76	41.40
947.38	40.41	946.56	40.91	945.74	41.41
947.37	40.42	946.55	40.92	945.73	41.42
947.35	40.43	946.53	40.93	945.71	41.43
947.34	40.44	946.52	40.94	945.69	41.44
947.32	40.45	946.50	40.95	945.68	41.45
947.30	40.46	946.48	40.96	945.66	41.46
947.29	40.47	946.47	40.97	945.64	41.47
947.27	40.48	946.45	40.98	945.62	41.48
947.26	40.49	946.44	40.99	945.61	41.49
947.24	40.50	946.42	41.00	945.59	41.50
947.22	40.51	946.40	41.01	945.57	41.51
947.21	40.52	946.39	41.02	945.56	41.52
947.19	40.53	946.37	41.03	945.54	41.53
947.18	40.54	946.36	41.04	945.53	41.54
947.16	40.55	946.34	41.05	945.51	41.55
947.14	40.56	946.32	41.06	945.49	41.56
947.13	40.57	946.31	41.07	945.48	41.57
947.11	40.58	946.29	41.08	945.46	41.58
947.10	40.59	946.28	41.09	945.45	41.59
947.08	40.60	946.26	41.10	945.43	41.60
947.06	40.61	946.24	41.11	945.41	41.61
947.05	40.62	946.23	41.12	945.40	41.62
947.03	40.63	946.21	41.13	945.38	41.63
947.01	40.64	946.19	41.14	945.36	41.64
947.00	40.65	946.18	41.15	945.34	41.65
946.98	40.66	946.16	41.16	945.33	41.66
946.96	40.67	946.14	41.17	945.31	41.67
946.94	40.68	946.12	41.18	945.29	41.68
946.93	40.69	946.11	41.19	945.28	41.69
946.91	40.70	946.09	41.20	945.26	41.70
946.89	40.71	946.07	41.21	945.24	41.71
946.88	40.72	946.06	41.22	945.23	41.72
946.86	40.73	946.04	41.23	945.21	41.73
946.85	40.74	946.03	41.24	945.19	41.74
946.83	40.75	946.01	41.25	945.18	41.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
945.16	41.76	944.32	42.26	943.47	42.76
945.14	41.77	944.30	42.27	943.45	42.77
945.12	41.78	944.28	42.28	943.43	42.78
945.11	41.79	944.27	42.29	943.42	42.79
945.09	41.80	944.25	42.30	943.40	42.80
945.07	41.81	944.23	42.31	943.38	42.81
945.06	41.82	944.22	42.32	943.37	42.82
945.04	41.83	944.20	42.33	943.35	42.83
945.03	41.84	944.18	42.34	943.33	42.84
945.01	41.85	944.16	42.35	943.32	42.85
944.99	41.86	944.15	42.36	943.30	42.86
944.98	41.87	944.13	42.37	943.28	42.87
944.96	41.88	944.11	42.38	943.26	42.88
944.95	41.89	944.10	42.39	943.25	42.89
944.93	41.90	944.08	42.40	943.23	42.90
944.91	41.91	944.06	42.41	943.21	42.91
944.90	41.92	944.05	42.42	943.20	42.92
944.88	41.93	944.03	42.43	943.18	42.93
944.86	41.94	944.01	42.44	943.16	42.94
944.84	41.95	944.00	42.45	943.14	42.95
944.83	41.96	943.98	42.46	943.13	42.96
944.81	41.97	943.96	42.47	943.11	42.97
944.79	41.98	943.94	42.48	943.09	42.98
944.78	41.99	943.93	42.49	943.08	42.99
944.76	42.00	943.91	42.50	943.06	43.00
944.74	42.01	943.89	42.51	943.04	43.01
944.73	42.02	943.88	42.52	943.02	43.02
944.71	42.03	943.86	42.53	943.01	43.03
944.69	42.04	943.84	42.54	942.99	43.04
944.68	42.05	943.82	42.55	942.97	43.05
944.66	42.06	943.81	42.56	942.95	43.06
944.64	42.07	943.79	42.57	942.93	43.07
944.62	42.08	943.77	42.58	942.92	43.08
944.61	42.09	943.76	42.59	942.90	43.09
944.59	42.10	943.74	42.60	942.88	43.10
944.57	42.11	943.72	42.61	942.86	43.11
944.56	42.12	943.71	42.62	942.85	43.12
944.54	42.13	943.69	42.63	942.83	43.13
944.52	42.14	943.67	42.64	942.81	43.14
944.50	42.15	943.66	42.65	942.80	43.15
944.49	42.16	943.64	42.66	942.78	43.16
944.47	42.17	943.62	42.67	942.76	43.17
944.45	42.18	943.60	42.68	942.74	43.18
944.44	42.19	943.59	42.69	942.73	43.19
944.42	42.20	943.57	42.70	942.71	43.20
944.40	42.21	943.55	42.71	942.69	43.21
944.39	42.22	943.54	42.72	942.68	43.22
944.37	42.23	943.52	42.73	942.66	43.23
944.35	42.24	943.50	42.74	942.64	43.24
944.34	42.25	943.48	42.75	942.62	43.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
942.61	43.26	941.74	43.76	940.86	44.26
942.59	43.27	941.72	43.77	940.84	44.27
942.57	43.28	941.70	43.78	940.83	44.28
942.56	43.29	941.69	43.79	940.81	44.29
942.54	43.30	941.67	43.80	940.79	44.30
942.52	43.31	941.65	43.81	940.77	44.31
942.51	43.32	941.63	43.82	940.75	44.32
942.49	43.33	941.62	43.83	940.74	44.33
942.47	43.34	941.60	43.84	940.72	44.34
942.46	43.35	941.58	43.85	940.70	44.35
942.44	43.36	941.56	43.86	940.68	44.36
942.42	43.37	941.54	43.87	940.66	44.37
942.40	43.38	941.53	43.88	940.65	44.38
942.39	43.39	941.51	43.89	940.63	44.39
942.37	43.40	941.49	43.90	940.61	44.40
942.35	43.41	941.47	43.91	940.59	44.41
942.33	43.42	941.46	43.92	940.57	44.42
942.32	43.43	941.44	43.93	940.56	44.43
942.30	43.44	941.42	43.94	940.54	44.44
942.28	43.45	941.40	43.95	940.52	44.45
942.26	43.46	941.39	43.96	940.50	44.46
942.24	43.47	941.37	43.97	940.48	44.47
942.23	43.48	941.35	43.98	940.47	44.48
942.21	43.49	941.34	43.99	940.45	44.49
942.19	43.50	941.32	44.00	940.43	44.50
942.17	43.51	941.30	44.01	940.41	44.51
942.16	43.52	941.28	44.02	940.40	44.52
942.14	43.53	941.27	44.03	940.38	44.53
942.12	43.54	941.25	44.04	940.36	44.54
942.10	43.55	941.23	44.05	940.34	44.55
942.09	43.56	941.21	44.06	940.33	44.56
942.07	43.57	941.19	44.07	940.31	44.57
942.05	43.58	941.18	44.08	940.29	44.58
942.04	43.59	941.16	44.09	940.28	44.59
942.02	43.60	941.14	44.10	940.26	44.60
942.00	43.61	941.12	44.11	940.24	44.61
941.98	43.62	941.11	44.12	940.22	44.62
941.97	43.63	941.09	44.13	940.21	44.63
941.95	43.64	941.07	44.14	940.19	44.64
941.93	43.65	941.06	44.15	940.17	44.65
941.91	43.66	941.04	44.16	940.15	44.66
941.89	43.67	941.02	44.17	940.13	44.67
941.88	43.68	941.00	44.18	940.12	44.68
941.86	43.69	940.99	44.19	940.10	44.69
941.84	43.70	940.97	44.20	940.08	44.70
941.82	43.71	940.95	44.21	940.06	44.71
941.81	43.72	940.93	44.22	940.04	44.72
941.79	43.73	940.92	44.23	940.03	44.73
941.77	43.74	940.90	44.24	940.01	44.74
941.76	43.75	940.88	44.25	939.99	44.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
939.97	44.76	939.07	45.26	938.17	45.76
939.95	44.77	939.05	45.27	938.15	45.77
939.94	44.78	939.04	45.28	938.14	45.78
939.92	44.79	939.02	45.29	938.12	45.79
939.90	44.80	939.00	45.30	938.10	45.80
939.88	44.81	938.98	45.31	938.08	45.81
939.86	44.82	938.96	45.32	938.06	45.82
939.85	44.83	938.95	45.33	938.04	45.83
939.83	44.84	938.93	45.34	938.02	45.84
939.81	44.85	938.91	45.35	938.00	45.85
939.79	44.86	938.89	45.36	937.99	45.86
939.77	44.87	938.87	45.37	937.97	45.87
939.76	44.88	938.86	45.38	937.95	45.88
939.74	44.89	938.84	45.39	937.93	45.89
939.72	44.90	938.82	45.40	937.91	45.90
939.70	44.91	938.80	45.41	937.89	45.91
939.68	44.92	938.78	45.42	937.87	45.92
939.67	44.93	938.77	45.43	937.86	45.93
939.65	44.94	938.75	45.44	937.84	45.94
939.63	44.95	938.73	45.45	937.82	45.95
939.61	44.96	938.71	45.46	937.80	45.96
939.59	44.97	938.69	45.47	937.78	45.97
939.58	44.98	938.68	45.48	937.77	45.98
939.56	44.99	938.66	45.49	937.75	45.99
939.54	45.00	938.64	45.50	937.73	46.00
939.52	45.01	938.62	45.51	937.71	46.01
939.50	45.02	938.60	45.52	937.69	46.02
939.49	45.03	938.59	45.53	937.68	46.03
939.47	45.04	938.57	45.54	937.66	46.04
939.45	45.05	938.55	45.55	937.64	46.05
939.43	45.06	938.53	45.56	937.62	46.06
939.41	45.07	938.51	45.57	937.60	46.07
939.40	45.08	938.50	45.58	937.59	46.08
939.38	45.09	938.48	45.59	937.57	46.09
939.36	45.10	938.46	45.60	937.55	46.10
939.34	45.11	938.44	45.61	937.53	46.11
939.32	45.12	938.42	45.62	937.51	46.12
939.31	45.13	938.41	45.63	937.49	46.13
939.29	45.14	938.39	45.64	937.47	46.14
939.27	45.15	938.37	45.65	937.46	46.15
939.25	45.16	938.35	45.66	937.44	46.16
939.23	45.17	938.33	45.67	937.42	46.17
939.22	45.18	938.32	45.68	937.40	46.18
939.20	45.19	938.30	45.69	937.38	46.19
939.18	45.20	938.28	45.70	937.36	46.20
939.16	45.21	938.26	45.71	937.34	46.21
939.14	45.22	938.24	45.72	937.32	46.22
939.13	45.23	938.23	45.73	937.31	46.23
939.11	45.24	938.21	45.74	937.29	46.24
939.09	45.25	938.19	45.75	937.27	46.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
937.25	46.26	936.33	46.76	935.40	47.26
937.23	46.27	936.31	46.77	935.38	47.27
937.22	46.28	936.30	46.78	935.36	47.28
937.20	46.29	936.28	46.79	935.34	47.29
937.18	46.30	936.26	46.80	935.32	47.30
937.16	46.31	936.24	46.81	935.30	47.31
937.14	46.32	936.22	46.82	935.28	47.32
937.13	46.33	936.20	46.83	935.27	47.33
937.11	46.34	936.18	46.84	935.25	47.34
937.09	46.35	936.16	46.85	935.23	47.35
937.07	46.36	936.15	46.86	935.21	47.36
937.05	46.37	936.13	46.87	935.19	47.37
937.04	46.38	936.11	46.88	935.18	47.38
937.02	46.39	936.09	46.89	935.16	47.39
937.00	46.40	936.07	46.90	935.14	47.40
936.98	46.41	936.05	46.91	935.12	47.41
936.96	46.42	936.03	46.92	935.10	47.42
936.94	46.43	936.01	46.93	935.08	47.43
936.92	46.44	935.99	46.94	935.06	47.44
936.90	46.45	935.98	46.95	935.04	47.45
936.89	46.46	935.96	46.96	935.03	47.46
936.87	46.47	935.94	46.97	935.01	47.47
936.85	46.48	935.92	46.98	934.99	47.48
936.83	46.49	935.90	46.99	934.97	47.49
936.81	46.50	935.88	47.00	934.95	47.50
936.79	46.51	935.86	47.01	934.93	47.51
936.77	46.52	935.84	47.02	934.91	47.52
936.76	46.53	935.83	47.03	934.89	47.53
936.74	46.54	935.81	47.04	934.87	47.54
936.72	46.55	935.79	47.05	934.86	47.55
936.70	46.56	935.77	47.06	934.84	47.56
936.68	46.57	935.75	47.07	934.82	47.57
936.67	46.58	935.74	47.08	934.80	47.58
936.65	46.59	935.72	47.09	934.78	47.59
936.63	46.60	935.70	47.10	934.76	47.60
936.61	46.61	935.68	47.11	934.74	47.61
936.59	46.62	935.66	47.12	934.72	47.62
936.57	46.63	935.64	47.13	934.70	47.63
936.55	46.64	935.62	47.14	934.68	47.64
936.54	46.65	935.60	47.15	934.66	47.65
936.52	46.66	935.59	47.16	934.65	47.66
936.50	46.67	935.57	47.17	934.63	47.67
936.48	46.68	935.55	47.18	934.61	47.68
936.46	46.69	935.53	47.19	934.59	47.69
936.44	46.70	935.51	47.20	934.57	47.70
936.42	46.71	935.49	47.21	934.55	47.71
936.40	46.72	935.47	47.22	934.53	47.72
936.39	46.73	935.45	47.23	934.51	47.73
936.37	46.74	935.43	47.24	934.49	47.74
936.35	46.75	935.42	47.25	934.48	47.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
934.46	47.76	933.51	48.26	932.55	48.76
934.44	47.77	933.49	48.27	932.53	48.77
934.42	47.78	933.47	48.28	932.51	48.78
934.40	47.79	933.45	48.29	932.49	48.79
934.38	47.80	933.43	48.30	932.47	48.80
934.36	47.81	933.41	48.31	932.45	48.81
934.34	47.82	933.39	48.32	932.43	48.82
934.32	47.83	933.37	48.33	932.41	48.83
934.30	47.84	933.35	48.34	932.39	48.84
934.28	47.85	933.34	48.35	932.38	48.85
934.27	47.86	933.32	48.36	932.36	48.86
934.25	47.87	933.30	48.37	932.34	48.87
934.23	47.88	933.28	48.38	932.32	48.88
934.21	47.89	933.26	48.39	932.30	48.89
934.19	47.90	933.24	48.40	932.28	48.90
934.17	47.91	933.22	48.41	932.26	48.91
934.15	47.92	933.20	48.42	932.24	48.92
934.13	47.93	933.18	48.43	932.22	48.93
934.11	47.94	933.16	48.44	932.20	48.94
934.10	47.95	933.14	48.45	932.18	48.95
934.08	47.96	933.13	48.46	932.17	48.96
934.06	47.97	933.11	48.47	932.15	48.97
934.04	47.98	933.09	48.48	932.13	48.98
934.02	47.99	933.07	48.49	932.11	48.99
934.00	48.00	933.05	48.50	932.09	49.00
933.98	48.01	933.03	48.51	932.07	49.01
933.96	48.02	933.01	48.52	932.05	49.02
933.94	48.03	932.99	48.53	932.03	49.03
933.92	48.04	932.97	48.54	932.01	49.04
933.90	48.05	932.96	48.55	932.00	49.05
933.89	48.06	932.94	48.56	931.98	49.06
933.87	48.07	932.92	48.57	931.96	49.07
933.85	48.08	932.90	48.58	931.94	49.08
933.83	48.09	932.88	48.59	931.92	49.09
933.81	48.10	932.86	48.60	931.90	49.10
933.79	48.11	932.84	48.61	931.88	49.11
933.77	48.12	932.82	48.62	931.86	49.12
933.75	48.13	932.80	48.63	931.84	49.13
933.73	48.14	932.78	48.64	931.82	49.14
933.72	48.15	932.76	48.65	931.80	49.15
933.70	48.16	932.75	48.66	931.78	49.16
933.68	48.17	932.73	48.67	931.76	49.17
933.66	48.18	932.71	48.68	931.74	49.18
933.64	48.19	932.69	48.69	931.72	49.19
933.62	48.20	932.67	48.70	931.70	49.20
933.60	48.21	932.65	48.71	931.68	49.21
933.58	48.22	932.63	48.72	931.66	49.22
933.56	48.23	932.61	48.73	931.64	49.23
933.54	48.24	932.59	48.74	931.62	49.24
933.52	48.25	932.57	48.75	931.60	49.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
931.59	49.26	930.61	49.76	929.63	50.26
931.57	49.27	930.59	49.77	929.61	50.27
931.55	49.28	930.57	49.78	929.59	50.28
931.53	49.29	930.55	49.79	929.57	50.29
931.51	49.30	930.53	49.80	929.55	50.30
931.49	49.31	930.51	49.81	929.53	50.31
931.47	49.32	930.49	49.82	929.51	50.32
931.45	49.33	930.47	49.83	929.49	50.33
931.43	49.34	930.45	49.84	929.47	50.34
931.41	49.35	930.44	49.85	929.45	50.35
931.39	49.36	930.42	49.86	929.43	50.36
931.37	49.37	930.40	49.87	929.41	50.37
931.35	49.38	930.38	49.88	929.39	50.38
931.33	49.39	930.36	49.89	929.37	50.39
931.31	49.40	930.34	49.90	929.35	50.40
931.29	49.41	930.32	49.91	929.33	50.41
931.27	49.42	930.30	49.92	929.31	50.42
931.25	49.43	930.28	49.93	929.29	50.43
931.23	49.44	930.26	49.94	929.27	50.44
931.22	49.45	930.24	49.95	929.26	50.45
931.20	49.46	930.22	49.96	929.24	50.46
931.18	49.47	930.20	49.97	929.22	50.47
931.16	49.48	930.18	49.98	929.20	50.48
931.14	49.49	930.16	49.99	929.18	50.49
931.12	49.50	930.14	50.00	929.16	50.50
931.10	49.51	930.12	50.01	929.14	50.51
931.08	49.52	930.10	50.02	929.12	50.52
931.06	49.53	930.08	50.03	929.10	50.53
931.04	49.54	930.06	50.04	929.08	50.54
931.02	49.55	930.04	50.05	929.06	50.55
931.00	49.56	930.03	50.06	929.04	50.56
930.98	49.57	930.01	50.07	929.02	50.57
930.96	49.58	929.99	50.08	929.00	50.58
930.94	49.59	929.97	50.09	928.98	50.59
930.92	49.60	929.95	50.10	928.96	50.60
930.90	49.61	929.93	50.11	928.94	50.61
930.88	49.62	929.91	50.12	928.92	50.62
930.86	49.63	929.89	50.13	928.90	50.63
930.84	49.64	929.87	50.14	928.88	50.64
930.83	49.65	929.85	50.15	928.86	50.65
930.81	49.66	929.83	50.16	928.84	50.66
930.79	49.67	929.81	50.17	928.82	50.67
930.77	49.68	929.79	50.18	928.80	50.68
930.75	49.69	929.77	50.19	928.78	50.69
930.73	49.70	929.75	50.20	928.76	50.70
930.71	49.71	929.73	50.21	928.74	50.71
930.69	49.72	929.71	50.22	928.72	50.72
930.67	49.73	929.69	50.23	928.70	50.73
930.65	49.74	929.67	50.24	928.68	50.74
930.63	49.75	929.65	50.25	928.66	50.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃) (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
928.64	50.76	927.65	51.26	926.64	51.76
928.62	50.77	927.63	51.27	926.62	51.77
928.60	50.78	927.61	51.28	926.60	51.78
928.58	50.79	927.59	51.29	926.58	51.79
928.56	50.80	927.57	51.30	926.56	51.80
928.54	50.81	927.55	51.31	926.54	51.81
928.52	50.82	927.53	51.32	926.52	51.82
928.50	50.83	927.51	51.33	926.50	51.83
928.48	50.84	927.49	51.34	926.48	51.84
928.46	50.85	927.46	51.35	926.46	51.85
928.44	50.86	927.44	51.36	926.44	51.86
928.42	50.87	927.42	51.37	926.42	51.87
928.40	50.88	927.40	51.38	926.40	51.88
928.38	50.89	927.38	51.39	926.38	51.89
928.36	50.90	927.36	51.40	926.36	51.90
928.34	50.91	927.34	51.41	926.34	51.91
928.32	50.92	927.32	51.42	926.32	51.92
928.30	50.93	927.30	51.43	926.30	51.93
928.28	50.94	927.28	51.44	926.28	51.94
928.26	50.95	927.26	51.45	926.26	51.95
928.24	50.96	927.24	51.46	926.24	51.96
928.22	50.97	927.22	51.47	926.22	51.97
928.20	50.98	927.20	51.48	926.20	51.98
928.18	50.99	927.18	51.49	926.18	51.99
928.16	51.00	927.16	51.50	926.16	52.00
928.14	51.01	927.14	51.51	926.14	52.01
928.12	51.02	927.12	51.52	926.12	52.02
928.10	51.03	927.10	51.53	926.10	52.03
928.08	51.04	927.08	51.54	926.08	52.04
928.06	51.05	927.06	51.55	926.06	52.05
928.04	51.06	927.04	51.56	926.03	52.06
928.02	51.07	927.02	51.57	926.01	52.07
928.00	51.08	927.00	51.58	925.99	52.08
927.98	51.09	926.98	51.59	925.97	52.09
927.96	51.10	926.96	51.60	925.95	52.10
927.94	51.11	926.94	51.61	925.93	52.11
927.92	51.12	926.92	51.62	925.91	52.12
927.90	51.13	926.90	51.63	925.89	52.13
927.88	51.14	926.88	51.64	925.87	52.14
927.86	51.15	926.86	51.65	925.85	52.15
927.85	51.16	926.84	51.66	925.83	52.16
927.83	51.17	926.82	51.67	925.81	52.17
927.81	51.18	926.80	51.68	925.79	52.18
927.79	51.19	926.78	51.69	925.77	52.19
927.77	51.20	926.76	51.70	925.75	52.20
927.75	51.21	926.74	51.71	925.73	52.21
927.73	51.22	926.72	51.72	925.71	52.22
927.71	51.23	926.70	51.73	925.69	52.23
927.69	51.24	926.68	51.74	925.67	52.24
927.67	51.25	926.66	51.75	925.65	52.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
925.63	52.26	924.61	52.76	923.58	53.26
925.61	52.27	924.59	52.77	923.56	53.27
925.59	52.28	924.57	52.78	923.54	53.28
925.57	52.29	924.55	52.79	923.52	53.29
925.55	52.30	924.53	52.80	923.50	53.30
925.53	52.31	924.51	52.81	923.48	53.31
925.51	52.32	924.49	52.82	923.46	53.32
925.49	52.33	924.47	52.83	923.44	53.33
925.47	52.34	924.45	52.84	923.42	53.34
925.45	52.35	924.42	52.85	923.40	53.35
925.43	52.36	924.40	52.86	923.38	53.36
925.41	52.37	924.38	52.87	923.36	53.37
925.39	52.38	924.36	52.88	923.34	53.38
925.37	52.39	924.34	52.89	923.32	53.39
925.35	52.40	924.32	52.90	923.30	53.40
925.33	52.41	924.30	52.91	923.28	53.41
925.31	52.42	924.28	52.92	923.26	53.42
925.29	52.43	924.26	52.93	923.24	53.43
925.27	52.44	924.24	52.94	923.22	53.44
925.24	52.45	924.22	52.95	923.20	53.45
925.22	52.46	924.20	52.96	923.17	53.46
925.20	52.47	924.18	52.97	923.15	53.47
925.18	52.48	924.16	52.98	923.13	53.48
925.16	52.49	924.14	52.99	923.11	53.49
925.14	52.50	924.12	53.00	923.09	53.50
925.12	52.51	924.10	53.01	923.07	53.51
925.10	52.52	924.08	53.02	923.05	53.52
925.08	52.53	924.06	53.03	923.03	53.53
925.06	52.54	924.04	53.04	923.01	53.54
925.04	52.55	924.02	53.05	922.98	53.55
925.02	52.56	923.99	53.06	922.96	53.56
925.00	52.57	923.97	53.07	922.94	53.57
924.98	52.58	923.95	53.08	922.92	53.58
924.96	52.59	923.93	53.09	922.90	53.59
924.94	52.60	923.91	53.10	922.88	53.60
924.92	52.61	923.89	53.11	922.86	53.61
924.90	52.62	923.87	53.12	922.84	53.62
924.88	52.63	923.85	53.13	922.82	53.63
924.86	52.64	923.83	53.14	922.80	53.64
924.84	52.65	923.81	53.15	922.78	53.65
924.81	52.66	923.79	53.16	922.76	53.66
924.79	52.67	923.77	53.17	922.74	53.67
924.77	52.68	923.75	53.18	922.72	53.68
924.75	52.69	923.73	53.19	922.70	53.69
924.73	52.70	923.71	53.20	922.68	53.70
924.71	52.71	923.69	53.21	922.66	53.71
924.69	52.72	923.67	53.22	922.64	53.72
924.67	52.73	923.65	53.23	922.62	53.73
924.65	52.74	923.63	53.24	922.60	53.74
924.63	52.75	923.60	53.25	922.58	53.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
922.55	53.76	921.51	54.26	920.46	54.76
922.53	53.77	921.49	54.27	920.44	54.77
922.51	53.78	921.47	54.28	920.42	54.78
922.49	53.79	921.45	54.29	920.40	54.79
922.47	53.80	921.43	54.30	920.38	54.80
922.45	53.81	921.41	54.31	920.36	54.81
922.43	53.82	921.39	54.32	920.34	54.82
922.41	53.83	921.37	54.33	920.32	54.83
922.39	53.84	921.35	54.34	920.30	54.84
922.36	53.85	921.32	54.35	920.28	54.85
922.34	53.86	921.30	54.36	920.25	54.86
922.32	53.87	921.28	54.37	920.23	54.87
922.30	53.88	921.26	54.38	920.21	54.88
922.28	53.89	921.24	54.39	920.19	54.89
922.26	53.90	921.22	54.40	920.17	54.90
922.24	53.91	921.20	54.41	920.15	54.91
922.22	53.92	921.18	54.42	920.13	54.92
922.20	53.93	921.16	54.43	920.11	54.93
922.18	53.94	921.14	54.44	920.09	54.94
922.16	53.95	921.12	54.45	920.06	54.95
922.14	53.96	921.09	54.46	920.04	54.96
922.12	53.97	921.07	54.47	920.02	54.97
922.10	53.98	921.05	54.48	920.00	54.98
922.08	53.99	921.03	54.49	919.98	54.99
922.06	54.00	921.01	54.50	919.96	55.00
922.04	54.01	920.99	54.51	919.94	55.01
922.02	54.02	920.97	54.52	919.92	55.02
922.00	54.03	920.95	54.53	919.90	55.03
921.98	54.04	920.93	54.54	919.88	55.04
921.96	54.05	920.90	54.55	919.86	55.05
921.93	54.06	920.88	54.56	919.83	55.06
921.91	54.07	920.86	54.57	919.81	55.07
921.89	54.08	920.84	54.58	919.79	55.08
921.87	54.09	920.82	54.59	919.77	55.09
921.85	54.10	920.80	54.60	919.75	55.10
921.83	54.11	920.78	54.61	919.73	55.11
921.81	54.12	920.76	54.62	919.71	55.12
921.79	54.13	920.74	54.63	919.69	55.13
921.77	54.14	920.72	54.64	919.67	55.14
921.74	54.15	920.70	54.65	919.64	55.15
921.72	54.16	920.67	54.66	919.62	55.16
921.70	54.17	920.65	54.67	919.60	55.17
921.68	54.18	920.63	54.68	919.58	55.18
921.66	54.19	920.61	54.69	919.56	55.19
921.64	54.20	920.59	54.70	919.54	55.20
921.62	54.21	920.57	54.71	919.52	55.21
921.60	54.22	920.55	54.72	919.50	55.22
921.58	54.23	920.53	54.73	919.48	55.23
921.56	54.24	920.51	54.74	919.46	55.24
921.54	54.25	920.48	54.75	919.44	55.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
919.41	55.26	918.35	55.76	917.29	56.26
919.39	55.27	918.33	55.77	917.27	56.27
919.37	55.28	918.31	55.78	917.24	56.28
919.35	55.29	918.29	55.79	917.22	56.29
919.33	55.30	918.27	55.80	917.20	56.30
919.31	55.31	918.25	55.81	917.18	56.31
919.29	55.32	918.23	55.82	917.16	56.32
919.27	55.33	918.21	55.83	917.14	56.33
919.25	55.34	918.19	55.84	917.12	56.34
919.22	55.35	918.16	55.85	917.10	56.35
919.20	55.36	918.14	55.86	917.07	56.36
919.18	55.37	918.12	55.87	917.05	56.37
919.16	55.38	918.10	55.88	917.03	56.38
919.14	55.39	918.08	55.89	917.01	56.39
919.12	55.40	918.06	55.90	916.99	56.40
919.10	55.41	918.04	55.91	916.97	56.41
919.08	55.42	918.02	55.92	916.95	56.42
919.06	55.43	917.99	55.93	916.92	56.43
919.04	55.44	917.97	55.94	916.90	56.44
919.02	55.45	917.95	55.95	916.88	56.45
918.99	55.46	917.93	55.96	916.86	56.46
918.97	55.47	917.91	55.97	916.84	56.47
918.95	55.48	917.88	55.98	916.81	56.48
918.93	55.49	917.86	55.99	916.79	56.49
918.91	55.50	917.84	56.00	916.77	56.50
918.89	55.51	917.82	56.01	916.75	56.51
918.87	55.52	917.80	56.02	916.73	56.52
918.84	55.53	917.78	56.03	916.71	56.53
918.82	55.54	917.76	56.04	916.69	56.54
918.80	55.55	917.74	56.05	916.66	56.55
918.78	55.56	917.71	56.06	916.64	56.56
918.76	55.57	917.69	56.07	916.62	56.57
918.73	55.58	917.67	56.08	916.60	56.58
918.71	55.59	917.65	56.09	916.58	56.59
918.69	55.60	917.63	56.10	916.56	56.60
918.67	55.61	917.61	56.11	916.54	56.61
918.65	55.62	917.59	56.12	916.52	56.62
918.63	55.63	917.57	56.13	916.50	56.63
918.61	55.64	917.55	56.14	916.48	56.64
918.58	55.65	917.52	56.15	916.46	56.65
918.56	55.66	917.50	56.16	916.43	56.66
918.54	55.67	917.48	56.17	916.41	56.67
918.52	55.68	917.46	56.18	916.39	56.68
918.50	55.69	917.44	56.19	916.37	56.69
918.48	55.70	917.42	56.20	916.35	56.70
918.46	55.71	917.40	56.21	916.33	56.71
918.44	55.72	917.38	56.22	916.31	56.72
918.42	55.73	917.35	56.23	916.28	56.73
918.40	55.74	917.33	56.24	916.26	56.74
918.38	55.75	917.31	56.25	916.24	56.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
916.22	56.76	915.14	57.26	914.05	57.76
916.20	56.77	915.12	57.27	914.03	57.77
916.17	56.78	915.09	57.28	914.01	57.78
916.15	56.79	915.07	57.29	913.99	57.79
916.13	56.80	915.05	57.30	913.97	57.80
916.11	56.81	915.03	57.31	913.95	57.81
916.09	56.82	915.01	57.32	913.93	57.82
916.06	56.83	914.98	57.33	913.90	57.83
916.04	56.84	914.96	57.34	913.88	57.84
916.02	56.85	914.94	57.35	913.86	57.85
916.00	56.86	914.92	57.36	913.84	57.86
915.98	56.87	914.90	57.37	913.82	57.87
915.95	56.88	914.87	57.38	913.79	57.88
915.93	56.89	914.85	57.39	913.77	57.89
915.91	56.90	914.83	57.40	913.75	57.90
915.89	56.91	914.81	57.41	913.73	57.91
915.87	56.92	914.79	57.42	913.71	57.92
915.85	56.93	914.77	57.43	913.68	57.93
915.83	56.94	914.75	57.44	913.66	57.94
915.80	56.95	914.72	57.45	913.64	57.95
915.78	56.96	914.70	57.46	913.62	57.96
915.76	56.97	914.68	57.47	913.60	57.97
915.74	56.98	914.66	57.48	913.57	57.98
915.72	56.99	914.64	57.49	913.55	57.99
915.70	57.00	914.62	57.50	913.53	58.00
915.68	57.01	914.60	57.51	913.51	58.01
915.66	57.02	914.58	57.52	913.49	58.02
915.63	57.03	914.55	57.53	913.46	58.03
915.61	57.04	914.53	57.54	913.44	58.04
915.59	57.05	914.51	57.55	913.42	58.05
915.57	57.06	914.49	57.56	913.40	58.06
915.55	57.07	914.47	57.57	913.38	58.07
915.52	57.08	914.44	57.58	913.35	58.08
915.50	57.09	914.42	57.59	913.33	58.09
915.48	57.10	914.40	57.60	913.31	58.10
915.46	57.11	914.38	57.61	913.29	58.11
915.44	57.12	914.36	57.62	913.27	58.12
915.42	57.13	914.33	57.63	913.24	58.13
915.40	57.14	914.31	57.64	913.22	58.14
915.38	57.15	914.29	57.65	913.20	58.15
915.35	57.16	914.27	57.66	913.18	58.16
915.33	57.17	914.25	57.67	913.16	58.17
915.31	57.18	914.22	57.68	913.13	58.18
915.29	57.19	914.20	57.69	913.11	58.19
915.27	57.20	914.18	57.70	913.09	58.20
915.25	57.21	914.16	57.71	913.07	58.21
915.23	57.22	914.14	57.72	913.05	58.22
915.20	57.23	914.12	57.73	913.02	58.23
915.18	57.24	914.10	57.74	913.00	58.24
915.16	57.25	914.08	57.75	912.98	58.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
912.96	58.26	911.87	58.76	910.76	59.26
912.94	58.27	911.85	58.77	910.74	59.27
912.91	58.28	911.82	58.78	910.71	59.28
912.89	58.29	911.80	58.79	910.69	59.29
912.87	58.30	911.78	58.80	910.67	59.30
912.85	58.31	911.76	58.81	910.65	59.31
912.83	58.32	911.73	58.82	910.63	59.32
912.80	58.33	911.71	58.83	910.60	59.33
912.78	58.34	911.69	58.84	910.58	59.34
912.76	58.35	911.66	58.85	910.56	59.35
912.74	58.36	911.64	58.86	910.54	59.36
912.72	58.37	911.62	58.87	910.52	59.37
912.69	58.38	911.60	58.88	910.49	59.38
912.67	58.39	911.57	58.89	910.47	59.39
912.65	58.40	911.55	58.90	910.45	59.40
912.63	58.41	911.53	58.91	910.43	59.41
912.61	58.42	911.51	58.92	910.41	59.42
912.58	58.43	911.48	58.93	910.38	59.43
912.56	58.44	911.46	58.94	910.36	59.44
912.54	58.45	911.44	58.95	910.34	59.45
912.52	58.46	911.42	58.96	910.32	59.46
912.50	58.47	911.40	58.97	910.30	59.47
912.47	58.48	911.37	58.98	910.27	59.48
912.45	58.49	911.35	58.99	910.25	59.49
912.43	58.50	911.33	59.00	910.23	59.50
912.41	58.51	911.31	59.01	910.21	59.51
912.39	58.52	911.29	59.02	910.19	59.52
912.37	58.53	911.26	59.03	910.16	59.53
912.35	58.54	911.24	59.04	910.14	59.54
912.32	58.55	911.22	59.05	910.12	59.55
912.30	58.56	911.20	59.06	910.10	59.56
912.28	58.57	911.18	59.07	910.08	59.57
912.26	58.58	911.15	59.08	910.05	59.58
912.24	58.59	911.13	59.09	910.03	59.59
912.22	58.60	911.11	59.10	910.01	59.60
912.20	58.61	911.09	59.11	909.99	59.61
912.18	58.62	911.07	59.12	909.96	59.62
912.15	58.63	911.04	59.13	909.94	59.63
912.13	58.64	911.02	59.14	909.92	59.64
912.11	58.65	911.00	59.15	909.90	59.65
912.09	58.66	910.98	59.16	909.87	59.66
912.07	58.67	910.96	59.17	909.85	59.67
912.04	58.68	910.93	59.18	909.83	59.68
912.02	58.69	910.91	59.19	909.80	59.69
912.00	58.70	910.89	59.20	909.78	59.70
911.98	58.71	910.87	59.21	909.76	59.71
911.96	58.72	910.85	59.22	909.74	59.72
911.93	58.73	910.82	59.23	909.71	59.73
911.91	58.74	910.80	59.24	909.69	59.74
911.89	58.75	910.78	59.25	909.67	59.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
909.65	59.76	908.53	60.26	907.41	60.76
909.63	59.77	908.51	60.27	907.39	60.77
909.60	59.78	908.49	60.28	907.37	60.78
909.58	59.79	908.46	60.29	907.34	60.79
909.56	59.80	908.44	60.30	907.32	60.80
909.54	59.81	908.42	60.31	907.30	60.81
909.52	59.82	908.40	60.32	907.28	60.82
909.49	59.83	908.37	60.33	907.25	60.83
909.47	59.84	908.35	60.34	907.23	60.84
909.45	59.85	908.33	60.35	907.21	60.85
909.43	59.86	908.31	60.36	907.19	60.86
909.41	59.87	908.29	60.37	907.17	60.87
909.38	59.88	908.26	60.38	907.14	60.88
909.36	59.89	908.24	60.39	907.12	60.89
909.34	59.90	908.22	60.40	907.10	60.90
909.32	59.91	908.20	60.41	907.08	60.91
909.29	59.92	908.18	60.42	907.05	60.92
909.27	59.93	908.15	60.43	907.03	60.93
909.25	59.94	908.13	60.44	907.01	60.94
909.22	59.95	908.11	60.45	906.98	60.95
909.20	59.96	908.09	60.46	906.96	60.96
909.18	59.97	908.07	60.47	906.94	60.97
909.16	59.98	908.04	60.48	906.92	60.98
909.13	59.99	908.02	60.49	906.89	60.99
909.11	60.00	908.00	60.50	906.87	61.00
909.09	60.01	907.98	60.51	906.85	61.01
909.07	60.02	907.95	60.52	906.82	61.02
909.04	60.03	907.93	60.53	906.80	61.03
909.02	60.04	907.91	60.54	906.78	61.04
909.00	60.05	907.88	60.55	906.76	61.05
908.98	60.06	907.86	60.56	906.73	61.06
908.96	60.07	907.84	60.57	906.71	61.07
908.93	60.08	907.82	60.58	906.69	61.08
908.91	60.09	907.79	60.59	906.66	61.09
908.89	60.10	907.77	60.60	906.64	61.10
908.87	60.11	907.75	60.61	906.62	61.11
908.85	60.12	907.73	60.62	906.60	61.12
908.82	60.13	907.70	60.63	906.57	61.13
908.80	60.14	907.68	60.64	906.55	61.14
908.78	60.15	907.66	60.65	906.53	61.15
908.76	60.16	907.64	60.66	906.51	61.16
908.74	60.17	907.62	60.67	906.49	61.17
908.71	60.18	907.59	60.68	906.46	61.18
908.69	60.19	907.57	60.69	906.44	61.19
908.67	60.20	907.55	60.70	906.42	61.20
908.65	60.21	907.53	60.71	906.40	61.21
908.62	60.22	907.50	60.72	906.37	61.22
908.60	60.23	907.48	60.73	906.35	61.23
908.58	60.24	907.46	60.74	906.33	61.24
908.56	60.25	907.44	60.75	906.30	61.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
906.28	61.26	905.15	61.76	904.01	62.26
906.26	61.27	905.13	61.77	903.99	62.27
906.24	61.28	905.11	61.78	903.97	62.28
906.21	61.29	905.08	61.79	903.94	62.29
906.19	61.30	905.06	61.80	903.92	62.30
906.17	61.31	905.04	61.81	903.90	62.31
906.15	61.32	905.01	61.82	903.87	62.32
906.12	61.33	904.99	61.83	903.85	62.33
906.10	61.34	904.97	61.84	903.83	62.34
906.08	61.35	904.94	61.85	903.80	62.35
906.06	61.36	904.92	61.86	903.78	62.36
906.04	61.37	904.90	61.87	903.76	62.37
906.01	61.38	904.88	61.88	903.74	62.38
905.99	61.39	904.85	61.89	903.71	62.39
905.97	61.40	904.83	61.90	903.69	62.40
905.95	61.41	904.81	61.91	903.67	62.41
905.92	61.42	904.78	61.92	903.64	62.42
905.90	61.43	904.76	61.93	903.62	62.43
905.88	61.44	904.74	61.94	903.60	62.44
905.86	61.45	904.72	61.95	903.58	62.45
905.83	61.46	904.69	61.96	903.55	62.46
905.81	61.47	904.67	61.97	903.53	62.47
905.79	61.48	904.65	61.98	903.51	62.48
905.76	61.49	904.62	61.99	903.48	62.49
905.74	61.50	904.60	62.00	903.46	62.50
905.72	61.51	904.58	62.01	903.44	62.51
905.69	61.52	904.55	62.02	903.41	62.52
905.67	61.53	904.53	62.03	903.39	62.53
905.65	61.54	904.51	62.04	903.37	62.54
905.62	61.55	904.48	62.05	903.34	62.55
905.60	61.56	904.46	62.06	903.32	62.56
905.58	61.57	904.44	62.07	903.30	62.57
905.56	61.58	904.42	62.08	903.28	62.58
905.53	61.59	904.39	62.09	903.25	62.59
905.51	61.60	904.37	62.10	903.23	62.60
905.49	61.61	904.35	62.11	903.21	62.61
905.47	61.62	904.33	62.12	903.18	62.62
905.44	61.63	904.30	62.13	903.16	62.63
905.42	61.64	904.28	62.14	903.14	62.64
905.40	61.65	904.26	62.15	903.12	62.65
905.38	61.66	904.24	62.16	903.09	62.66
905.36	61.67	904.22	62.17	903.07	62.67
905.33	61.68	904.19	62.18	903.05	62.68
905.31	61.69	904.17	62.19	903.02	62.69
905.29	61.70	904.15	62.20	903.00	62.70
905.27	61.71	904.13	62.21	902.98	62.71
905.24	61.72	904.10	62.22	902.95	62.72
905.22	61.73	904.08	62.23	902.93	62.73
905.20	61.74	904.06	62.24	902.91	62.74
905.18	61.75	904.04	62.25	902.88	62.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
902.86	62.76	901.71	63.26	900.55	63.76
902.84	62.77	901.69	63.27	900.53	63.77
902.82	62.78	901.67	63.28	900.51	63.78
902.79	62.79	901.64	63.29	900.48	63.79
902.77	62.80	901.62	63.30	900.46	63.80
902.75	62.81	901.60	63.31	900.44	63.81
902.72	62.82	901.57	63.32	900.41	63.82
902.70	62.83	901.55	63.33	900.39	63.83
902.68	62.84	901.53	63.34	900.37	63.84
902.66	62.85	901.50	63.35	900.34	63.85
902.63	62.86	901.48	63.36	900.32	63.86
902.61	62.87	901.46	63.37	900.30	63.87
902.59	62.88	901.44	63.38	900.28	63.88
902.56	62.89	901.41	63.39	900.25	63.89
902.54	62.90	901.39	63.40	900.23	63.90
902.52	62.91	901.37	63.41	900.21	63.91
902.49	62.92	901.34	63.42	900.18	63.92
902.47	62.93	901.32	63.43	900.16	63.93
902.45	62.94	901.29	63.44	900.13	63.94
902.42	62.95	901.27	63.45	900.11	63.95
902.40	62.96	901.25	63.46	900.09	63.96
902.38	62.97	901.22	63.47	900.06	63.97
902.36	62.98	901.20	63.48	900.04	63.98
902.33	62.99	901.17	63.49	900.01	63.99
902.31	63.00	901.15	63.50	899.99	64.00
902.29	63.01	901.13	63.51	899.97	64.01
902.26	63.02	901.10	63.52	899.94	64.02
902.24	63.03	901.08	63.53	899.92	64.03
902.22	63.04	901.06	63.54	899.90	64.04
902.20	63.05	901.04	63.55	899.88	64.05
902.17	63.06	901.01	63.56	899.85	64.06
902.15	63.07	900.99	63.57	899.83	64.07
902.13	63.08	900.97	63.58	899.81	64.08
902.10	63.09	900.94	63.59	899.78	64.09
902.08	63.10	900.92	63.60	899.76	64.10
902.06	63.11	900.90	63.61	899.74	64.11
902.03	63.12	900.87	63.62	899.71	64.12
902.01	63.13	900.85	63.63	899.69	64.13
901.99	63.14	900.83	63.64	899.67	64.14
901.96	63.15	900.80	63.65	899.64	64.15
901.94	63.16	900.78	63.66	899.62	64.16
901.92	63.17	900.76	63.67	899.60	64.17
901.90	63.18	900.74	63.68	899.58	64.18
901.87	63.19	900.71	63.69	899.55	64.19
901.85	63.20	900.69	63.70	899.53	64.20
901.83	63.21	900.67	63.71	899.51	64.21
901.80	63.22	900.64	63.72	899.48	64.22
901.78	63.23	900.62	63.73	899.46	64.23
901.76	63.24	900.60	63.74	899.43	64.24
901.74	63.25	900.58	63.75	899.41	64.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
899.39	64.26	898.22	64.76	897.04	65.26
899.36	64.27	898.19	64.77	897.01	65.27
899.34	64.28	898.17	64.78	896.99	65.28
899.31	64.29	898.14	64.79	896.96	65.29
899.29	64.30	898.12	64.80	896.94	65.30
899.27	64.31	898.10	64.81	896.92	65.31
899.24	64.32	898.07	64.82	896.89	65.32
899.22	64.33	898.05	64.83	896.87	65.33
899.20	64.34	898.03	64.84	896.85	65.34
899.18	64.35	898.00	64.85	896.82	65.35
899.15	64.36	897.98	64.86	896.80	65.36
899.13	64.37	897.96	64.87	896.78	65.37
899.11	64.38	897.94	64.88	896.76	65.38
899.08	64.39	897.91	64.89	896.73	65.39
899.06	64.40	897.89	64.90	896.71	65.40
899.04	64.41	897.87	64.91	896.69	65.41
899.01	64.42	897.84	64.92	896.66	65.42
898.99	64.43	897.82	64.93	896.64	65.43
898.96	64.44	897.79	64.94	896.61	65.44
898.94	64.45	897.77	64.95	896.59	65.45
898.92	64.46	897.75	64.96	896.57	65.46
898.89	64.47	897.72	64.97	896.54	65.47
898.87	64.48	897.70	64.98	896.52	65.48
898.84	64.49	897.67	64.99	896.49	65.49
898.82	64.50	897.65	65.00	896.47	65.50
898.80	64.51	897.63	65.01	896.45	65.51
898.77	64.52	897.60	65.02	896.42	65.52
898.75	64.53	897.58	65.03	896.40	65.53
898.73	64.54	897.56	65.04	896.37	65.54
898.70	64.55	897.54	65.05	896.35	65.55
898.68	64.56	897.51	65.06	896.33	65.56
898.66	64.57	897.49	65.07	896.30	65.57
898.64	64.58	897.47	65.08	896.28	65.58
898.61	64.59	897.44	65.09	896.25	65.59
898.59	64.60	897.42	65.10	896.23	65.60
898.57	64.61	897.40	65.11	896.21	65.61
898.54	64.62	897.37	65.12	896.18	65.62
898.52	64.63	897.35	65.13	896.16	65.63
898.50	64.64	897.32	65.14	896.14	65.64
898.48	64.65	897.30	65.15	896.12	65.65
898.45	64.66	897.28	65.16	896.09	65.66
898.43	64.67	897.25	65.17	896.07	65.67
898.41	64.68	897.23	65.18	896.05	65.68
898.38	64.69	897.20	65.19	896.02	65.69
898.36	64.70	897.18	65.20	896.00	65.70
898.34	64.71	897.16	65.21	895.98	65.71
898.31	64.72	897.13	65.22	895.95	65.72
898.29	64.73	897.11	65.23	895.93	65.73
898.26	64.74	897.08	65.24	895.90	65.74
898.24	64.75	897.06	65.25	895.88	65.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
895.86	65.76	894.67	66.26	893.47	66.76
895.83	65.77	894.64	66.27	893.44	66.77
895.81	65.78	894.62	66.28	893.42	66.78
895.78	65.79	894.59	66.29	893.39	66.79
895.76	65.80	894.57	66.30	893.37	66.80
895.74	65.81	894.55	66.31	893.35	66.81
895.71	65.82	894.52	66.32	893.32	66.82
895.69	65.83	894.50	66.33	893.30	66.83
895.66	65.84	894.47	66.34	893.27	66.84
895.64	65.85	894.45	66.35	893.25	66.85
895.62	65.86	894.43	66.36	893.23	66.86
895.59	65.87	894.40	66.37	893.20	66.87
895.57	65.88	894.38	66.38	893.18	66.88
895.54	65.89	894.35	66.39	893.15	66.89
895.52	65.90	894.33	66.40	893.13	66.90
895.50	65.91	894.31	66.41	893.11	66.91
895.47	65.92	894.28	66.42	893.08	66.92
895.45	65.93	894.26	66.43	893.06	66.93
895.42	65.94	894.23	66.44	893.03	66.94
895.40	65.95	894.21	66.45	893.01	66.95
895.38	65.96	894.19	66.46	892.99	66.96
895.35	65.97	894.16	66.47	892.96	66.97
895.33	65.98	894.14	66.48	892.94	66.98
895.30	65.99	894.11	66.49	892.91	66.99
895.28	66.00	894.09	66.50	892.89	67.00
895.26	66.01	894.07	66.51	892.87	67.01
895.23	66.02	894.04	66.52	892.84	67.02
895.21	66.03	894.02	66.53	892.82	67.03
895.19	66.04	893.99	66.54	892.79	67.04
895.16	66.05	893.97	66.55	892.77	67.05
895.14	66.06	893.95	66.56	892.75	67.06
895.12	66.07	893.92	66.57	892.72	67.07
895.10	66.08	893.90	66.58	892.70	67.08
895.07	66.09	893.87	66.59	892.67	67.09
895.05	66.10	893.85	66.60	892.65	67.10
895.03	66.11	893.83	66.61	892.63	67.11
895.00	66.12	893.80	66.62	892.60	67.12
894.98	66.13	893.78	66.63	892.58	67.13
894.95	66.14	893.75	66.64	892.55	67.14
894.93	66.15	893.73	66.65	892.53	67.15
894.91	66.16	893.71	66.66	892.51	67.16
894.88	66.17	893.68	66.67	892.48	67.17
894.86	66.18	893.66	66.68	892.46	67.18
894.83	66.19	893.63	66.69	892.43	67.19
894.81	66.20	893.61	66.70	892.41	67.20
894.79	66.21	893.59	66.71	892.39	67.21
894.76	66.22	893.56	66.72	892.36	67.22
894.74	66.23	893.54	66.73	892.34	67.23
894.71	66.24	893.51	66.74	892.31	67.24
894.69	66.25	893.49	66.75	892.29	67.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
892.27	67.26	891.06	67.76	889.85	68.26
892.24	67.27	891.03	67.77	889.82	68.27
892.22	67.28	891.01	67.78	889.80	68.28
892.19	67.29	890.98	67.79	889.77	68.29
892.17	67.30	890.96	67.80	889.75	68.30
892.15	67.31	890.94	67.81	889.72	68.31
892.12	67.32	890.91	67.82	889.70	68.32
892.10	67.33	890.89	67.83	889.68	68.33
892.07	67.34	890.86	67.84	889.65	68.34
892.05	67.35	890.84	67.85	889.62	68.35
892.03	67.36	890.82	67.86	889.60	68.36
892.00	67.37	890.79	67.87	889.58	68.37
891.98	67.38	890.77	67.88	889.55	68.38
891.95	67.39	890.74	67.89	889.52	68.39
891.93	67.40	890.72	67.90	889.50	68.40
891.91	67.41	890.70	67.91	889.48	68.41
891.88	67.42	890.67	67.92	889.45	68.42
891.86	67.43	890.65	67.93	889.43	68.43
891.83	67.44	890.62	67.94	889.40	68.44
891.81	67.45	890.60	67.95	889.38	68.45
891.79	67.46	890.58	67.96	889.36	68.46
891.76	67.47	890.55	67.97	889.33	68.47
891.74	67.48	890.53	67.98	889.31	68.48
891.71	67.49	890.50	67.99	889.28	68.49
891.69	67.50	890.48	68.00	889.26	68.50
891.67	67.51	890.46	68.01	889.24	68.51
891.64	67.52	890.43	68.02	889.21	68.52
891.62	67.53	890.40	68.03	889.18	68.53
891.59	67.54	890.38	68.04	889.16	68.54
891.57	67.55	890.36	68.05	889.14	68.55
891.55	67.56	890.33	68.06	889.11	68.56
891.52	67.57	890.30	68.07	889.08	68.57
891.50	67.58	890.28	68.08	889.06	68.58
891.47	67.59	890.26	68.09	889.04	68.59
891.45	67.60	890.23	68.10	889.01	68.60
891.42	67.61	890.21	68.11	888.99	68.61
891.40	67.62	890.18	68.12	888.96	68.62
891.38	67.63	890.16	68.13	888.94	68.63
891.35	67.64	890.13	68.14	888.91	68.64
891.32	67.65	890.11	68.15	888.89	68.65
891.30	67.66	890.09	68.16	888.87	68.66
891.28	67.67	890.06	68.17	888.84	68.67
891.25	67.68	890.04	68.18	888.82	68.68
891.22	67.69	890.01	68.19	888.79	68.69
891.20	67.70	889.99	68.20	888.77	68.70
891.18	67.71	889.97	68.21	888.74	68.71
891.15	67.72	889.94	68.22	888.72	68.72
891.13	67.73	889.92	68.23	888.70	68.73
891.10	67.74	889.89	68.24	888.67	68.74
891.08	67.75	889.87	68.25	888.64	68.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
888.62	68.76	887.39	69.26	886.16	69.76
888.60	68.77	887.36	69.27	886.14	69.77
888.57	68.78	887.34	69.28	886.11	69.78
888.54	68.79	887.32	69.29	886.08	69.79
888.52	68.80	887.29	69.30	886.06	69.80
888.50	68.81	887.27	69.31	886.04	69.81
888.47	68.82	887.24	69.32	886.01	69.82
888.45	68.83	887.22	69.33	885.98	69.83
888.42	68.84	887.19	69.34	885.96	69.84
888.40	68.85	887.17	69.35	885.94	69.85
888.38	68.86	887.15	69.36	885.91	69.86
888.35	68.87	887.12	69.37	885.89	69.87
888.33	68.88	887.10	69.38	885.86	69.88
888.30	68.89	887.07	69.39	885.84	69.89
888.28	68.90	887.05	69.40	885.81	69.90
888.26	68.91	887.02	69.41	885.78	69.91
888.23	68.92	887.00	69.42	885.76	69.92
888.20	68.93	886.98	69.43	885.74	69.93
888.18	68.94	886.95	69.44	885.71	69.94
888.16	68.95	886.92	69.45	885.68	69.95
888.13	68.96	886.90	69.46	885.66	69.96
888.10	68.97	886.88	69.47	885.64	69.97
888.08	68.98	886.85	69.48	885.61	69.98
888.06	68.99	886.82	69.49	885.58	69.99
888.03	69.00	886.80	69.50	885.56	70.00
888.01	69.01	886.78	69.51	885.54	70.01
887.98	69.02	886.75	69.52	885.51	70.02
887.96	69.03	886.72	69.53	885.48	70.03
887.93	69.04	886.70	69.54	885.46	70.04
887.91	69.05	886.68	69.55	885.44	70.05
887.89	69.06	886.65	69.56	885.41	70.06
887.86	69.07	886.62	69.57	885.38	70.07
887.84	69.08	886.60	69.58	885.36	70.08
887.81	69.09	886.58	69.59	885.34	70.09
887.79	69.10	886.55	69.60	885.31	70.10
887.76	69.11	886.53	69.61	885.28	70.11
887.74	69.12	886.50	69.62	885.26	70.12
887.72	69.13	886.48	69.63	885.24	70.13
887.69	69.14	886.45	69.64	885.21	70.14
887.66	69.15	886.43	69.65	885.18	70.15
887.64	69.16	886.41	69.66	885.16	70.16
887.62	69.17	886.38	69.67	885.14	70.17
887.59	69.18	886.36	69.68	885.11	70.18
887.56	69.19	886.33	69.69	885.08	70.19
887.54	69.20	886.31	69.70	885.06	70.20
887.52	69.21	886.28	69.71	885.04	70.21
887.49	69.22	886.26	69.72	885.01	70.22
887.46	69.23	886.24	69.73	884.99	70.23
887.44	69.24	886.21	69.74	884.96	70.24
887.42	69.25	886.18	69.75	884.94	70.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
884.92	70.26	883.67	70.76	882.41	71.26
884.89	70.27	883.64	70.77	882.38	71.27
884.87	70.28	883.62	70.78	882.36	71.28
884.84	70.29	883.60	70.79	882.34	71.29
884.82	70.30	883.57	70.80	882.31	71.30
884.80	70.31	883.54	70.81	882.28	71.31
884.77	70.32	883.52	70.82	882.26	71.32
884.74	70.33	883.50	70.83	882.24	71.33
884.72	70.34	883.47	70.84	882.21	71.34
884.70	70.35	883.44	70.85	882.18	71.35
884.67	70.36	883.42	70.86	882.16	71.36
884.64	70.37	883.40	70.87	882.14	71.37
884.62	70.38	883.37	70.88	882.11	71.38
884.60	70.39	883.34	70.89	882.08	71.39
884.57	70.40	883.32	70.90	882.06	71.40
884.54	70.41	883.29	70.91	882.04	71.41
884.52	70.42	883.27	70.92	882.01	71.42
884.50	70.43	883.24	70.93	881.98	71.43
884.47	70.44	883.22	70.94	881.96	71.44
884.44	70.45	883.19	70.95	881.94	71.45
884.42	70.46	883.16	70.96	881.91	71.46
884.40	70.47	883.14	70.97	881.88	71.47
884.37	70.48	883.11	70.98	881.86	71.48
884.34	70.49	883.09	70.99	881.84	71.49
884.32	70.50	883.06	71.00	881.81	71.50
884.30	70.51	883.04	71.01	881.78	71.51
884.27	70.52	883.01	71.02	881.76	71.52
884.24	70.53	882.98	71.03	881.73	71.53
884.22	70.54	882.96	71.04	881.71	71.54
884.20	70.55	882.94	71.05	881.68	71.55
884.17	70.56	882.91	71.06	881.65	71.56
884.14	70.57	882.88	71.07	881.63	71.57
884.12	70.58	882.86	71.08	881.60	71.58
884.10	70.59	882.84	71.09	881.58	71.59
884.07	70.60	882.81	71.10	881.55	71.60
884.04	70.61	882.78	71.11	881.52	71.61
884.02	70.62	882.76	71.12	881.50	71.62
884.00	70.63	882.74	71.13	881.48	71.63
883.97	70.64	882.71	71.14	881.45	71.64
883.94	70.65	882.68	71.15	881.42	71.65
883.92	70.66	882.66	71.16	881.40	71.66
883.90	70.67	882.64	71.17	881.38	71.67
883.87	70.68	882.61	71.18	881.35	71.68
883.84	70.69	882.58	71.19	881.32	71.69
883.82	70.70	882.56	71.20	881.30	71.70
883.80	70.71	882.54	71.21	881.28	71.71
883.77	70.72	882.51	71.22	881.25	71.72
883.74	70.73	882.48	71.23	881.22	71.73
883.72	70.74	882.46	71.24	881.20	71.74
883.70	70.75	882.44	71.25	881.18	71.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
881.15	71.76	879.88	72.26	878.60	72.76
881.12	71.77	879.86	72.27	878.58	72.77
881.10	71.78	879.83	72.28	878.55	72.78
881.08	71.79	879.80	72.29	878.52	72.79
881.05	71.80	879.78	72.30	878.50	72.80
881.02	71.81	879.75	72.31	878.47	72.81
881.00	71.82	879.73	72.32	878.45	72.82
880.97	71.83	879.70	72.33	878.42	72.83
880.95	71.84	879.68	72.34	878.40	72.84
880.92	71.85	879.65	72.35	878.37	72.85
880.89	71.86	879.62	72.36	878.34	72.86
880.87	71.87	879.60	72.37	878.32	72.87
880.84	71.88	879.57	72.38	878.29	72.88
880.82	71.89	879.55	72.39	878.27	72.89
880.79	71.90	879.52	72.40	878.24	72.90
880.76	71.91	879.50	72.41	878.22	72.91
880.74	71.92	879.47	72.42	878.19	72.92
880.72	71.93	879.44	72.43	878.16	72.93
880.69	71.94	879.42	72.44	878.14	72.94
880.66	71.95	879.40	72.45	878.12	72.95
880.64	71.96	879.37	72.46	878.09	72.96
880.62	71.97	879.34	72.47	878.06	72.97
880.59	71.98	879.32	72.48	878.04	72.98
880.56	71.99	879.30	72.49	878.02	72.99
880.54	72.00	879.27	72.50	877.99	73.00
880.52	72.01	879.24	72.51	877.96	73.01
880.49	72.02	879.22	72.52	877.94	73.02
880.46	72.03	879.19	72.53	877.91	73.03
880.44	72.04	879.17	72.54	877.89	73.04
880.42	72.05	879.14	72.55	877.86	73.05
880.39	72.06	879.11	72.56	877.83	73.06
880.36	72.07	879.09	72.57	877.81	73.07
880.34	72.08	879.06	72.58	877.78	73.08
880.32	72.09	879.04	72.59	877.76	73.09
880.29	72.10	879.01	72.60	877.73	73.10
880.26	72.11	878.98	72.61	877.70	73.11
880.24	72.12	878.96	72.62	877.68	73.12
880.21	72.13	878.93	72.63	877.65	73.13
880.19	72.14	878.91	72.64	877.63	73.14
880.16	72.15	878.88	72.65	877.60	73.15
880.13	72.16	878.85	72.66	877.57	73.16
880.11	72.17	878.83	72.67	877.55	73.17
880.08	72.18	878.80	72.68	877.52	73.18
880.06	72.19	878.78	72.69	877.50	73.19
880.03	72.20	878.75	72.70	877.47	73.20
880.00	72.21	878.72	72.71	877.44	73.21
879.98	72.22	878.70	72.72	877.42	73.22
879.96	72.23	878.68	72.73	877.39	73.23
879.93	72.24	878.65	72.74	877.37	73.24
879.90	72.25	878.62	72.75	877.34	73.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
877.31	73.26	876.02	73.76	874.72	74.26
877.29	73.27	876.00	73.77	874.70	74.27
877.26	73.28	875.97	73.78	874.67	74.28
877.24	73.29	875.95	73.79	874.65	74.29
877.21	73.30	875.92	73.80	874.62	74.30
877.18	73.31	875.89	73.81	874.59	74.31
877.16	73.32	875.87	73.82	874.57	74.32
877.14	73.33	875.84	73.83	874.54	74.33
877.11	73.34	875.82	73.84	874.52	74.34
877.08	73.35	875.79	73.85	874.49	74.35
877.06	73.36	875.76	73.86	874.46	74.36
877.04	73.37	875.74	73.87	874.44	74.37
877.01	73.38	875.71	73.88	874.41	74.38
876.98	73.39	875.69	73.89	874.39	74.39
876.96	73.40	875.66	73.90	874.36	74.40
876.93	73.41	875.89	73.91	874.33	74.41
876.91	73.42	875.87	73.92	874.31	74.42
876.88	73.43	875.84	73.93	874.28	74.43
876.86	73.44	875.82	73.94	874.26	74.44
876.83	73.45	875.79	73.95	874.23	74.45
876.80	73.46	875.76	73.96	874.20	74.46
876.78	73.47	875.74	73.97	874.18	74.47
876.75	73.48	875.71	73.98	874.15	74.48
876.73	73.49	875.69	73.99	874.13	74.49
876.70	73.50	875.40	74.00	874.10	74.50
876.67	73.51	875.37	74.01	874.07	74.51
876.65	73.52	875.35	74.02	874.05	74.52
876.62	73.53	875.32	74.03	874.02	74.53
876.60	73.54	875.30	74.04	874.00	74.54
876.57	73.55	875.27	74.05	873.97	74.55
876.54	73.56	875.24	74.06	873.94	74.56
876.52	73.57	875.22	74.07	873.92	74.57
876.49	73.58	875.19	74.08	873.89	74.58
876.47	73.59	875.17	74.09	873.87	74.59
876.44	73.60	875.14	74.10	873.84	74.60
876.41	73.61	875.11	74.11	873.81	74.61
876.39	73.62	875.09	74.12	873.79	74.62
876.36	73.63	875.06	74.13	873.76	74.63
876.34	73.64	875.04	74.14	873.74	74.64
876.31	73.65	875.01	74.15	873.71	74.65
876.28	73.66	874.98	74.16	873.68	74.66
876.26	73.67	874.96	74.17	873.66	74.67
876.23	73.68	874.93	74.18	873.63	74.68
876.21	73.69	874.91	74.19	873.61	74.69
876.18	73.70	874.88	74.20	873.58	74.70
876.15	73.71	874.85	74.21	873.55	74.71
876.13	73.72	874.83	74.22	873.53	74.72
876.10	73.73	874.80	74.23	873.50	74.73
876.08	73.74	874.78	74.24	873.48	74.74
876.05	73.75	874.75	74.25	873.45	74.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
873.42	74.76	872.11	75.26	870.79	75.76
873.40	74.77	872.08	75.27	870.76	75.77
873.37	74.78	872.05	75.28	870.73	75.78
873.35	74.79	872.03	75.29	870.71	75.79
873.32	74.80	872.00	75.30	870.68	75.80
873.29	74.81	871.97	75.31	870.65	75.81
873.27	74.82	871.95	75.32	870.63	75.82
873.24	74.83	871.92	75.33	870.60	75.83
873.22	74.84	871.90	75.34	870.58	75.84
873.19	74.85	871.87	75.35	870.55	75.85
873.16	74.86	871.84	75.36	870.52	75.86
873.14	74.87	871.82	75.37	870.50	75.87
873.11	74.88	871.79	75.38	870.47	75.88
873.09	74.89	871.77	75.39	870.45	75.89
873.06	74.90	871.74	75.40	870.42	75.90
873.03	74.91	871.71	75.41	870.39	75.91
873.01	74.92	871.69	75.42	870.37	75.92
872.98	74.93	871.66	75.43	870.34	75.93
872.95	74.94	871.64	75.44	870.31	75.94
872.92	74.95	871.61	75.45	870.28	75.95
872.90	74.96	871.58	75.46	870.26	75.96
872.87	74.97	871.56	75.47	870.23	75.97
872.84	74.98	871.53	75.48	870.20	75.98
872.82	74.99	871.51	75.49	870.18	75.99
872.79	75.00	871.48	75.50	870.15	76.00
872.76	75.01	871.45	75.51	870.12	76.01
872.74	75.02	871.43	75.52	870.10	76.02
872.71	75.03	871.40	75.53	870.07	76.03
872.69	75.04	871.37	75.54	870.05	76.04
872.66	75.05	871.34	75.55	870.02	76.05
872.63	75.06	871.32	75.56	869.99	76.06
872.61	75.07	871.29	75.57	869.97	76.07
872.58	75.08	871.26	75.58	869.94	76.08
872.56	75.09	871.24	75.59	869.92	76.09
872.53	75.10	871.21	75.60	869.89	76.10
872.50	75.11	871.18	75.61	869.86	76.11
872.48	75.12	871.16	75.62	869.84	76.12
872.45	75.13	871.13	75.63	869.81	76.13
872.43	75.14	871.11	75.64	869.78	76.14
872.40	75.15	871.08	75.65	869.76	76.15
872.37	75.16	871.05	75.66	869.73	76.16
872.35	75.17	871.03	75.67	869.70	76.17
872.32	75.18	871.00	75.68	869.67	76.18
872.30	75.19	870.98	75.69	869.65	76.19
872.27	75.20	870.95	75.70	869.62	76.20
872.24	75.21	870.92	75.71	869.59	76.21
872.22	75.22	870.90	75.72	869.57	76.22
872.19	75.23	870.87	75.73	869.54	76.23
872.16	75.24	870.84	75.74	869.51	76.24
872.14	75.25	870.82	75.75	869.48	76.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
869.46	76.26	868.12	76.76	866.78	77.26
869.43	76.27	868.10	76.77	866.75	77.27
869.40	76.28	868.07	76.78	866.72	77.28
869.38	76.29	868.05	76.79	866.70	77.29
869.35	76.30	868.02	76.80	866.67	77.30
869.32	76.31	867.99	76.81	866.64	77.31
869.30	76.32	867.97	76.82	866.62	77.32
869.27	76.33	867.94	76.83	866.59	77.33
869.25	76.34	867.91	76.84	866.56	77.34
869.22	76.35	867.88	76.85	866.54	77.35
869.19	76.36	867.86	76.86	866.51	77.36
869.17	76.37	867.83	76.87	866.48	77.37
869.14	76.38	867.80	76.88	866.45	77.38
869.12	76.39	867.78	76.89	866.43	77.39
869.09	76.40	867.75	76.90	866.40	77.40
869.06	76.41	867.72	76.91	866.37	77.41
869.04	76.42	867.70	76.92	866.35	77.42
869.01	76.43	867.67	76.93	866.32	77.43
868.98	76.44	867.64	76.94	866.29	77.44
868.96	76.45	867.62	76.95	866.26	77.45
868.93	76.46	867.59	76.96	866.24	77.46
868.90	76.47	867.56	76.97	866.21	77.47
868.87	76.48	867.53	76.98	866.18	77.48
868.85	76.49	867.51	76.99	866.16	77.49
868.82	76.50	867.48	77.00	866.13	77.50
868.79	76.51	867.45	77.01	866.10	77.51
868.77	76.52	867.43	77.02	866.08	77.52
868.74	76.53	867.40	77.03	866.05	77.53
868.71	76.54	867.37	77.04	866.02	77.54
868.68	76.55	867.34	77.05	866.00	77.55
868.66	76.56	867.32	77.06	865.97	77.56
868.63	76.57	867.29	77.07	865.94	77.57
868.60	76.58	867.26	77.08	865.91	77.58
868.58	76.59	867.24	77.09	865.89	77.59
868.55	76.60	867.21	77.10	865.86	77.60
868.52	76.61	867.18	77.11	865.83	77.61
868.50	76.62	867.16	77.12	865.81	77.62
868.47	76.63	867.13	77.13	865.78	77.63
868.44	76.64	867.10	77.14	865.75	77.64
868.42	76.65	867.08	77.15	865.72	77.65
868.39	76.66	867.05	77.16	865.70	77.66
868.36	76.67	867.02	77.17	865.67	77.67
868.33	76.68	866.99	77.18	865.64	77.68
868.31	76.69	866.97	77.19	865.62	77.69
868.28	76.70	866.94	77.20	865.59	77.70
868.25	76.71	866.91	77.21	865.56	77.71
868.23	76.72	866.89	77.22	865.54	77.72
868.20	76.73	866.86	77.23	865.51	77.73
868.18	76.74	866.83	77.24	865.48	77.74
868.15	76.75	866.80	77.25	865.46	77.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
865.43	77.76	864.07	78.26	862.70	78.76
865.40	77.77	864.04	78.27	862.67	78.77
865.37	77.78	864.01	78.28	862.64	78.78
865.35	77.79	863.99	78.29	862.62	78.79
865.32	77.80	863.96	78.30	862.59	78.80
865.29	77.81	863.93	78.31	862.56	78.81
865.27	77.82	863.91	78.32	862.53	78.82
865.24	77.83	863.88	78.33	862.51	78.83
865.21	77.84	863.85	78.34	862.48	78.84
865.18	77.85	863.82	78.35	862.45	78.85
865.16	77.86	863.80	78.36	862.42	78.86
865.13	77.87	863.77	78.37	862.39	78.87
865.10	77.88	863.74	78.38	862.37	78.88
865.08	77.89	863.72	78.39	862.34	78.89
865.05	77.90	863.69	78.40	862.31	78.90
865.02	77.91	863.66	78.41	862.28	78.91
865.00	77.92	863.63	78.42	862.26	78.92
864.97	77.93	863.61	78.43	862.23	78.93
864.94	77.94	863.58	78.44	862.20	78.94
864.92	77.95	863.55	78.45	862.18	78.95
864.89	77.96	863.52	78.46	862.15	78.96
864.86	77.97	863.49	78.47	862.12	78.97
864.83	77.98	863.47	78.48	862.09	78.98
864.81	77.99	863.44	78.49	862.07	78.99
864.78	78.00	863.41	78.50	862.04	79.00
864.75	78.01	863.38	78.51	862.01	79.01
864.72	78.02	863.36	78.52	861.98	79.02
864.70	78.03	863.33	78.53	861.96	79.03
864.67	78.04	863.30	78.54	861.93	79.04
864.64	78.05	863.28	78.55	861.90	79.05
864.61	78.06	863.25	78.56	861.87	79.06
864.58	78.07	863.22	78.57	861.84	79.07
864.56	78.08	863.19	78.58	861.82	79.08
864.53	78.09	863.17	78.59	861.79	79.09
864.50	78.10	863.14	78.60	861.76	79.10
864.47	78.11	863.11	78.61	861.73	79.11
864.45	78.12	863.08	78.62	861.71	79.12
864.42	78.13	863.06	78.63	861.68	79.13
864.39	78.14	863.03	78.64	861.65	79.14
864.36	78.15	863.00	78.65	861.62	79.15
864.34	78.16	862.97	78.66	861.60	79.16
864.31	78.17	862.94	78.67	861.57	79.17
864.28	78.18	862.92	78.68	861.54	79.18
864.26	78.19	862.89	78.69	861.52	79.19
864.23	78.20	862.86	78.70	861.49	79.20
864.20	78.21	862.83	78.71	861.46	79.21
864.18	78.22	862.81	78.72	861.43	79.22
864.15	78.23	862.78	78.73	861.41	79.23
864.12	78.24	862.75	78.74	861.38	79.24
864.10	78.25	862.72	78.75	861.35	79.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
861.32	79.26	859.94	79.76	858.54	80.26
861.29	79.27	859.91	79.77	858.51	80.27
861.27	79.28	859.88	79.78	858.49	80.28
861.24	79.29	859.86	79.79	858.46	80.29
861.21	79.30	859.83	79.80	858.43	80.30
861.18	79.31	859.80	79.81	858.40	80.31
861.16	79.32	859.77	79.82	858.37	80.32
861.13	79.33	859.75	79.83	858.35	80.33
861.10	79.34	859.72	79.84	858.32	80.34
861.08	79.35	859.69	79.85	858.29	80.35
861.05	79.36	859.66	79.86	858.26	80.36
861.02	79.37	859.63	79.87	858.23	80.37
860.99	79.38	859.61	79.88	858.21	80.38
860.97	79.39	859.58	79.89	858.18	80.39
860.94	79.40	859.55	79.90	858.15	80.40
860.91	79.41	859.52	79.91	858.12	80.41
860.88	79.42	859.49	79.92	858.09	80.42
860.86	79.43	859.47	79.93	858.07	80.43
860.83	79.44	859.44	79.94	858.04	80.44
860.80	79.45	859.41	79.95	858.01	80.45
860.77	79.46	859.38	79.96	857.98	80.46
860.74	79.47	859.35	79.97	857.95	80.47
860.72	79.48	859.33	79.98	857.93	80.48
860.69	79.49	859.30	79.99	857.90	80.49
860.66	79.50	859.27	80.00	857.87	80.50
860.63	79.51	859.24	80.01	857.84	80.51
860.60	79.52	859.21	80.02	857.81	80.52
860.58	79.53	859.19	80.03	857.79	80.53
860.55	79.54	859.16	80.04	857.76	80.54
860.52	79.55	859.13	80.05	857.73	80.55
860.49	79.56	859.10	80.06	857.70	80.56
860.46	79.57	859.07	80.07	857.67	80.57
860.44	79.58	859.05	80.08	857.65	80.58
860.41	79.59	859.02	80.09	857.62	80.59
860.38	79.60	858.99	80.10	857.59	80.60
860.35	79.61	858.96	80.11	857.56	80.61
860.32	79.62	858.93	80.12	857.53	80.62
860.30	79.63	858.91	80.13	857.51	80.63
860.27	79.64	858.88	80.14	857.48	80.64
860.24	79.65	858.85	80.15	857.45	80.65
860.21	79.66	858.82	80.16	857.42	80.66
860.18	79.67	858.79	80.17	857.39	80.67
860.16	79.68	858.77	80.18	857.37	80.68
860.13	79.69	858.74	80.19	857.34	80.69
860.10	79.70	858.71	80.20	857.31	80.70
860.07	79.71	858.68	80.21	857.28	80.71
860.05	79.72	858.65	80.22	857.25	80.72
860.02	79.73	858.63	80.23	857.23	80.73
859.99	79.74	858.60	80.24	857.20	80.74
859.96	79.75	858.57	80.25	857.17	80.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
857.14	80.76	855.73	81.26	854.31	81.76
857.11	80.77	855.70	81.27	854.28	81.77
857.09	80.78	855.68	81.28	854.25	81.78
857.06	80.79	855.65	81.29	854.22	81.79
857.03	80.80	855.62	81.30	854.19	81.80
857.00	80.81	855.59	81.31	854.16	81.81
856.97	80.82	855.56	81.32	854.13	81.82
856.95	80.83	855.53	81.33	854.11	81.83
856.92	80.84	855.50	81.34	854.08	81.84
856.89	80.85	855.48	81.35	854.05	81.85
856.86	80.86	855.45	81.36	854.02	81.86
856.83	80.87	855.42	81.37	853.99	81.87
856.81	80.88	855.39	81.38	853.97	81.88
856.78	80.89	855.36	81.39	853.94	81.89
856.75	80.90	855.33	81.40	853.91	81.90
856.72	80.91	855.30	81.41	853.88	81.91
856.69	80.92	855.27	81.42	853.85	81.92
856.66	80.93	855.25	81.43	853.82	81.93
856.63	80.94	855.22	81.44	853.79	81.94
856.60	80.95	855.18	81.45	853.76	81.95
856.58	80.96	855.16	81.46	853.74	81.96
856.55	80.97	855.13	81.47	853.71	81.97
856.52	80.98	855.11	81.48	853.68	81.98
856.49	80.99	855.08	81.49	853.65	81.99
856.46	81.00	855.05	81.50	853.62	82.00
856.43	81.01	855.02	81.51	853.59	82.01
856.40	81.02	854.99	81.52	853.56	82.02
856.38	81.03	854.96	81.53	853.54	82.03
856.35	81.04	854.93	81.54	853.51	82.04
856.32	81.05	854.90	81.55	853.48	82.05
856.29	81.06	854.88	81.56	853.45	82.06
856.26	81.07	854.85	81.57	853.42	82.07
856.24	81.08	854.82	81.58	853.40	82.08
856.21	81.09	854.79	81.59	853.37	82.09
856.18	81.10	854.76	81.60	853.34	82.10
856.15	81.11	854.73	81.61	853.31	82.11
856.12	81.12	854.70	81.62	853.28	82.12
856.10	81.13	854.68	81.63	853.25	82.13
856.07	81.14	854.65	81.64	853.22	82.14
856.04	81.15	854.62	81.65	853.20	82.15
856.01	81.16	854.59	81.66	853.17	82.16
855.98	81.17	854.56	81.67	853.14	82.17
855.96	81.18	854.54	81.68	853.11	82.18
855.93	81.19	854.51	81.69	853.08	82.19
855.90	81.20	854.48	81.70	853.05	82.20
855.87	81.21	854.45	81.71	853.02	82.21
855.84	81.22	854.42	81.72	852.99	82.22
855.82	81.23	854.39	81.73	852.96	82.23
855.79	81.24	854.36	81.74	852.93	82.24
855.76	81.25	854.34	81.75	852.90	82.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
852.88	82.26	851.44	82.76	849.99	83.26
852.85	82.27	851.41	82.77	849.96	83.27
852.82	82.28	851.38	82.78	849.93	83.28
852.79	82.29	851.35	82.79	849.90	83.29
852.76	82.30	851.32	82.80	849.87	83.30
852.73	82.31	851.29	82.81	849.84	83.31
852.70	82.32	851.26	82.82	849.81	83.32
852.68	82.33	851.23	82.83	849.78	83.33
852.65	82.34	851.20	82.84	849.75	83.34
852.62	82.35	851.18	82.85	849.72	83.35
852.59	82.36	851.15	82.86	849.70	83.36
852.56	82.37	851.12	82.87	849.67	83.37
852.54	82.38	851.09	82.88	849.64	83.38
852.51	82.39	851.06	82.89	849.61	83.39
852.48	82.40	851.03	82.90	849.58	83.40
852.45	82.41	851.00	82.91	849.55	83.41
852.42	82.42	850.97	82.92	849.52	83.42
852.39	82.43	850.94	82.93	849.49	83.43
852.36	82.44	850.91	82.94	849.46	83.44
852.34	82.45	850.88	82.95	849.44	83.45
852.31	82.46	850.86	82.96	849.41	83.46
852.28	82.47	850.83	82.97	849.38	83.47
852.25	82.48	850.80	82.98	849.35	83.48
852.22	82.49	850.77	82.99	849.32	83.49
852.19	82.50	850.74	83.00	849.29	83.50
852.16	82.51	850.71	83.01	849.26	83.51
852.13	82.52	850.68	83.02	849.23	83.52
852.10	82.53	850.65	83.03	849.20	83.53
852.07	82.54	850.62	83.04	849.17	83.54
852.04	82.55	850.60	83.05	849.14	83.55
852.02	82.56	850.57	83.06	849.11	83.56
851.99	82.57	850.54	83.07	849.08	83.57
851.96	82.58	850.51	83.08	849.05	83.58
851.93	82.59	850.48	83.09	849.02	83.59
851.90	82.60	850.45	83.10	848.99	83.60
851.87	82.61	850.42	83.11	848.96	83.61
851.84	82.62	850.39	83.12	848.93	83.62
851.81	82.63	850.36	83.13	848.90	83.63
851.78	82.64	850.33	83.14	848.87	83.64
851.76	82.65	850.30	83.15	848.84	83.65
851.73	82.66	850.28	83.16	848.82	83.66
851.70	82.67	850.25	83.17	848.79	83.67
851.67	82.68	850.22	83.18	848.76	83.68
851.64	82.69	850.19	83.19	848.73	83.69
851.61	82.70	850.16	83.20	848.70	83.70
851.58	82.71	850.13	83.21	848.67	83.71
851.55	82.72	850.10	83.22	848.64	83.72
851.52	82.73	850.07	83.23	848.61	83.73
851.49	82.74	850.04	83.24	848.58	83.74
851.46	82.75	850.02	83.25	848.56	83.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
848.53	83.76	847.05	84.26	845.57	84.76
848.50	83.77	847.02	84.27	845.54	84.77
848.47	83.78	846.99	84.28	845.51	84.78
848.44	83.79	846.96	84.29	845.48	84.79
848.41	83.80	846.93	84.30	845.45	84.80
848.38	83.81	846.90	84.31	845.42	84.81
848.35	83.82	846.87	84.32	845.39	84.82
848.32	83.83	846.84	84.33	845.36	84.83
848.29	83.84	846.81	84.34	845.33	84.84
848.26	83.85	846.78	84.35	845.30	84.85
848.23	83.86	846.76	84.36	845.27	84.86
848.20	83.87	846.73	84.37	845.24	84.87
848.17	83.88	846.70	84.38	845.21	84.88
848.14	83.89	846.67	84.39	845.18	84.89
848.11	83.90	846.64	84.40	845.15	84.90
848.08	83.91	846.61	84.41	845.12	84.91
848.05	83.92	846.58	84.42	845.09	84.92
848.02	83.93	846.55	84.43	845.06	84.93
847.99	83.94	846.52	84.44	845.03	84.94
847.96	83.95	846.49	84.45	845.00	84.95
847.94	83.96	846.46	84.46	844.97	84.96
847.91	83.97	846.43	84.47	844.94	84.97
847.88	83.98	846.40	84.48	844.91	84.98
847.85	83.99	846.37	84.49	844.88	84.99
847.82	84.00	846.34	84.50	844.85	85.00
847.79	84.01	846.31	84.51	844.82	85.01
847.76	84.02	846.28	84.52	844.79	85.02
847.73	84.03	846.25	84.53	844.76	85.03
847.70	84.04	846.22	84.54	844.73	85.04
847.68	84.05	846.20	84.55	844.70	85.05
847.65	84.06	846.17	84.56	844.67	85.06
847.62	84.07	846.14	84.57	844.64	85.07
847.59	84.08	846.11	84.58	844.61	85.08
847.56	84.09	846.08	84.59	844.58	85.09
847.53	84.10	846.05	84.60	844.55	85.10
847.50	84.11	846.02	84.61	844.52	85.11
847.47	84.12	845.99	84.62	844.49	85.12
847.44	84.13	845.96	84.63	844.46	85.13
847.41	84.14	845.93	84.64	844.43	85.14
847.38	84.15	845.90	84.65	844.40	85.15
847.35	84.16	845.87	84.66	844.37	85.16
847.32	84.17	845.84	84.67	844.34	85.17
847.29	84.18	845.81	84.68	844.31	85.18
847.26	84.19	845.78	84.69	844.28	85.19
847.23	84.20	845.75	84.70	844.25	85.20
847.20	84.21	845.72	84.71	844.22	85.21
847.17	84.22	845.69	84.72	844.19	85.22
847.14	84.23	845.66	84.73	844.16	85.23
847.11	84.24	845.63	84.74	844.13	85.24
847.08	84.25	845.60	84.75	844.10	85.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
844.07	85.26	842.56	85.76	841.04	86.26
844.04	85.27	842.53	85.77	841.01	86.27
844.01	85.28	842.50	85.78	840.98	86.28
843.98	85.29	842.47	85.79	840.95	86.29
843.95	85.30	842.44	85.80	840.92	86.30
843.92	85.31	842.41	85.81	840.89	86.31
843.89	85.32	842.38	85.82	840.86	86.32
843.86	85.33	842.35	85.83	840.83	86.33
843.83	85.34	842.32	85.84	840.80	86.34
843.80	85.35	842.29	85.85	840.76	86.35
843.77	85.36	842.26	85.86	840.74	86.36
843.74	85.37	842.23	85.87	840.71	86.37
843.71	85.38	842.20	85.88	840.68	86.38
843.68	85.39	842.17	85.89	840.65	86.39
843.65	85.40	842.14	85.90	840.62	86.40
843.62	85.41	842.11	85.91	840.59	86.41
843.59	85.42	842.08	85.92	840.56	86.42
843.56	85.43	842.05	85.93	840.53	86.43
843.53	85.44	842.02	85.94	840.50	86.44
843.50	85.45	841.99	85.95	840.46	86.45
843.47	85.46	841.96	85.96	840.43	86.46
843.44	85.47	841.93	85.97	840.40	86.47
843.41	85.48	841.90	85.98	840.37	86.48
843.38	85.49	841.87	85.99	840.34	86.49
843.35	85.50	841.84	86.00	840.31	86.50
843.32	85.51	841.81	86.01	840.28	86.51
843.29	85.52	841.78	86.02	840.25	86.52
843.26	85.53	841.75	86.03	840.22	86.53
843.23	85.54	841.72	86.04	840.19	86.54
843.20	85.55	841.68	86.05	840.16	86.55
843.17	85.56	841.65	86.06	840.12	86.56
843.14	85.57	841.62	86.07	840.09	86.57
843.11	85.58	841.59	86.08	840.06	86.58
843.08	85.59	841.56	86.09	840.03	86.59
843.05	85.60	841.53	86.10	840.00	86.60
843.02	85.61	841.50	86.11	839.97	86.61
842.99	85.62	841.47	86.12	839.94	86.62
842.96	85.63	841.44	86.13	839.91	86.63
842.93	85.64	841.41	86.14	839.88	86.64
842.90	85.65	841.38	86.15	839.85	86.65
842.87	85.66	841.35	86.16	839.82	86.66
842.84	85.67	841.32	86.17	839.79	86.67
842.81	85.68	841.29	86.18	839.76	86.68
842.78	85.69	841.26	86.19	839.73	86.69
842.75	85.70	841.23	86.20	839.70	86.70
842.72	85.71	841.20	86.21	839.67	86.71
842.69	85.72	841.17	86.22	839.64	86.72
842.66	85.73	841.14	86.23	839.61	86.73
842.63	85.74	841.11	86.24	839.58	86.74
842.60	85.75	841.08	86.25	839.54	86.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
839.51	86.76	837.96	87.26	836.40	87.76
839.48	86.77	837.93	87.27	836.37	87.77
839.45	86.78	837.90	87.28	836.33	87.78
839.42	86.79	837.87	87.29	836.30	87.79
839.39	86.80	837.84	87.30	836.27	87.80
839.36	86.81	837.81	87.31	836.24	87.81
839.33	86.82	837.78	87.32	836.21	87.82
839.30	86.83	837.74	87.33	836.18	87.83
839.27	86.84	837.71	87.34	836.15	87.84
839.24	86.85	837.68	87.35	836.12	87.85
839.20	86.86	837.65	87.36	836.08	87.86
839.17	86.87	837.62	87.37	836.05	87.87
839.14	86.88	837.58	87.38	836.02	87.88
839.11	86.89	837.55	87.39	835.99	87.89
839.08	86.90	837.52	87.40	835.96	87.90
839.05	86.91	837.49	87.41	835.93	87.91
839.02	86.92	837.46	87.42	835.90	87.92
838.99	86.93	837.43	87.43	835.86	87.93
838.96	86.94	837.40	87.44	835.83	87.94
838.92	86.95	837.36	87.45	835.80	87.95
838.89	86.96	837.33	87.46	835.77	87.96
838.86	86.97	837.30	87.47	835.74	87.97
838.83	86.98	837.27	87.48	835.70	87.98
838.80	86.99	837.24	87.49	835.67	87.99
838.77	87.00	837.21	87.50	835.64	88.00
838.74	87.01	837.18	87.51	835.61	88.01
838.71	87.02	837.15	87.52	835.58	88.02
838.68	87.03	837.12	87.53	835.54	88.03
838.65	87.04	837.09	87.54	835.51	88.04
838.62	87.05	837.06	87.55	835.48	88.05
838.58	87.06	837.02	87.56	835.45	88.06
838.55	87.07	836.99	87.57	835.42	88.07
838.52	87.08	836.96	87.58	835.38	88.08
838.49	87.09	836.93	87.59	835.35	88.09
838.46	87.10	836.90	87.60	835.32	88.10
838.43	87.11	836.87	87.61	835.29	88.11
838.40	87.12	836.84	87.62	835.26	88.12
838.37	87.13	836.81	87.63	835.23	88.13
838.34	87.14	836.78	87.64	835.20	88.14
838.30	87.15	836.74	87.65	835.16	88.15
838.27	87.16	836.71	87.66	835.13	88.16
838.24	87.17	836.68	87.67	835.10	88.17
838.21	87.18	836.65	87.68	835.07	88.18
838.18	87.19	836.62	87.69	835.04	88.19
838.15	87.20	836.59	87.70	835.01	88.20
838.12	87.21	836.56	87.71	834.98	88.21
838.09	87.22	836.53	87.72	834.95	88.22
838.06	87.23	836.49	87.73	834.91	88.23
838.03	87.24	836.46	87.74	834.88	88.24
838.00	87.25	836.43	87.75	834.85	88.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
834.82	88.26	833.22	88.76	831.61	89.26
834.79	88.27	833.19	88.77	831.58	89.27
834.75	88.28	833.15	88.78	831.54	89.28
834.72	88.29	833.12	88.79	831.51	89.29
834.69	88.30	833.09	88.80	831.48	89.30
834.66	88.31	833.06	88.81	831.45	89.31
834.63	88.32	833.03	88.82	831.41	89.32
834.59	88.33	832.99	88.83	831.38	89.33
834.56	88.34	832.96	88.84	831.35	89.34
834.53	88.35	832.93	88.85	831.32	89.35
834.50	88.36	832.90	88.86	831.28	89.36
834.47	88.37	832.87	88.87	831.25	89.37
834.43	88.38	832.83	88.88	831.22	89.38
834.40	88.39	832.80	88.89	831.18	89.39
834.37	88.40	832.77	88.90	831.15	89.40
834.34	88.41	832.74	88.91	831.12	89.41
834.31	88.42	832.71	88.92	831.08	89.42
834.27	88.43	832.67	88.93	831.05	89.43
834.24	88.44	832.64	88.94	831.02	89.44
834.21	88.45	832.61	88.95	830.98	89.45
834.18	88.46	832.58	88.96	830.95	89.46
834.15	88.47	832.55	88.97	830.92	89.47
834.11	88.48	832.51	88.98	830.89	89.48
834.08	88.49	832.48	88.99	830.85	89.49
834.05	88.50	832.45	89.00	830.82	89.50
834.02	88.51	832.42	89.01	830.79	89.51
833.99	88.52	832.38	89.02	830.76	89.52
833.95	88.53	832.35	89.03	830.72	89.53
833.92	88.54	832.32	89.04	830.69	89.54
833.89	88.55	832.28	89.05	830.66	89.55
833.86	88.56	832.25	89.06	830.63	89.56
833.83	88.57	832.22	89.07	830.60	89.57
833.79	88.58	832.19	89.08	830.56	89.58
833.76	88.59	832.15	89.09	830.53	89.59
833.73	88.60	832.12	89.10	830.50	89.60
833.70	88.61	832.09	89.11	830.47	89.61
833.67	88.62	832.06	89.12	830.43	89.62
833.63	88.63	832.02	89.13	830.40	89.63
833.60	88.64	831.99	89.14	830.37	89.64
833.57	88.65	831.96	89.15	830.34	89.65
833.54	88.66	831.93	89.16	830.30	89.66
833.51	88.67	831.90	89.17	830.27	89.67
833.47	88.68	831.86	89.18	830.24	89.68
833.44	88.69	831.83	89.19	830.20	89.69
833.41	88.70	831.80	89.20	830.17	89.70
833.38	88.71	831.77	89.21	830.14	89.71
833.35	88.72	831.74	89.22	830.10	89.72
833.31	88.73	831.70	89.23	830.07	89.73
833.28	88.74	831.67	89.24	830.04	89.74
833.25	88.75	831.64	89.25	830.00	89.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
829.97	89.76	828.32	90.26	826.65	90.76
829.94	89.77	828.29	90.27	826.61	90.77
829.91	89.78	828.26	90.28	826.58	90.78
829.87	89.79	828.22	90.29	826.54	90.79
829.84	89.80	828.19	90.30	826.51	90.80
829.81	89.81	828.16	90.31	826.48	90.81
829.77	89.82	828.12	90.32	826.44	90.82
829.74	89.83	828.09	90.33	826.41	90.83
829.71	89.84	828.05	90.34	826.37	90.84
829.68	89.85	828.02	90.35	826.34	90.85
829.64	89.86	827.99	90.36	826.31	90.86
829.61	89.87	827.95	90.37	826.27	90.87
829.58	89.88	827.92	90.38	826.24	90.88
829.54	89.89	827.88	90.39	826.20	90.89
829.51	89.90	827.85	90.40	826.17	90.90
829.48	89.91	827.82	90.41	826.14	90.91
829.44	89.92	827.78	90.42	826.10	90.92
829.41	89.93	827.75	90.43	826.07	90.93
829.38	89.94	827.72	90.44	826.03	90.94
829.34	89.95	827.68	90.45	826.00	90.95
829.31	89.96	827.65	90.46	825.97	90.96
829.28	89.97	827.62	90.47	825.93	90.97
829.25	89.98	827.59	90.48	825.90	90.98
829.21	89.99	827.55	90.49	825.86	90.99
829.18	90.00	827.52	90.50	825.83	91.00
829.15	90.01	827.49	90.51	825.80	91.01
829.11	90.02	827.45	90.52	825.76	91.02
829.08	90.03	827.42	90.53	825.73	91.03
829.05	90.04	827.38	90.54	825.69	91.04
829.02	90.05	827.35	90.55	825.66	91.05
828.98	90.06	827.32	90.56	825.63	91.06
828.95	90.07	827.28	90.57	825.59	91.07
828.92	90.08	827.25	90.58	825.56	91.08
828.88	90.09	827.21	90.59	825.52	91.09
828.85	90.10	827.18	90.60	825.49	91.10
828.82	90.11	827.15	90.61	825.46	91.11
828.78	90.12	827.11	90.62	825.42	91.12
828.75	90.13	827.08	90.63	825.39	91.13
828.72	90.14	827.05	90.64	825.35	91.14
828.68	90.15	827.02	90.65	825.32	91.15
828.65	90.16	826.98	90.66	825.29	91.16
828.62	90.17	826.95	90.67	825.25	91.17
828.59	90.18	826.92	90.68	825.22	91.18
828.55	90.19	826.88	90.69	825.18	91.19
828.52	90.20	826.85	90.70	825.15	91.20
828.49	90.21	826.82	90.71	825.12	91.21
828.45	90.22	826.78	90.72	825.08	91.22
828.42	90.23	826.75	90.73	825.05	91.23
828.39	90.24	826.71	90.74	825.01	91.24
828.36	90.25	826.68	90.75	824.98	91.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
824.95	91.26	823.23	91.76	821.48	92.26
824.91	91.27	823.20	91.77	821.44	92.27
824.88	91.28	823.16	91.78	821.41	92.28
824.84	91.29	823.12	91.79	821.38	92.29
824.81	91.30	823.09	91.80	821.34	92.30
824.78	91.31	823.06	91.81	821.30	92.31
824.74	91.32	823.02	91.82	821.27	92.32
824.71	91.33	822.98	91.83	821.24	92.33
824.67	91.34	822.95	91.84	821.20	92.34
824.64	91.35	822.92	91.85	821.16	92.35
824.61	91.36	822.88	91.86	821.13	92.36
824.57	91.37	822.84	91.87	821.10	92.37
824.54	91.38	822.81	91.88	821.06	92.38
824.50	91.39	822.78	91.89	821.02	92.39
824.47	91.40	822.74	91.90	820.99	92.40
824.44	91.41	822.70	91.91	820.95	92.41
824.40	91.42	822.67	91.92	820.92	92.42
824.37	91.43	822.64	91.93	820.88	92.43
824.33	91.44	822.60	91.94	820.85	92.44
824.30	91.45	822.56	91.95	820.81	92.45
824.27	91.46	822.53	91.96	820.77	92.46
824.23	91.47	822.50	91.97	820.74	92.47
824.20	91.48	822.46	91.98	820.70	92.48
824.16	91.49	822.42	91.99	820.67	92.49
824.13	91.50	822.39	92.00	820.63	92.50
824.10	91.51	822.36	92.01	820.60	92.51
824.06	91.52	822.32	92.02	820.56	92.52
824.02	91.53	822.28	92.03	820.52	92.53
823.99	91.54	822.25	92.04	820.49	92.54
823.96	91.55	822.22	92.05	820.46	92.55
823.92	91.56	822.18	92.06	820.42	92.56
823.88	91.57	822.14	92.07	820.38	92.57
823.85	91.58	822.11	92.08	820.35	92.58
823.82	91.59	822.08	92.09	820.32	92.59
823.78	91.60	822.04	92.10	820.28	92.60
823.74	91.61	822.00	92.11	820.24	92.61
823.71	91.62	821.97	92.12	820.21	92.62
823.68	91.63	821.94	92.13	820.17	92.63
823.64	91.64	821.90	92.14	820.14	92.64
823.60	91.65	821.86	92.15	820.10	92.65
823.58	91.66	821.83	92.16	820.06	92.66
823.54	91.67	821.80	92.17	820.03	92.67
823.51	91.68	821.76	92.18	819.99	92.68
823.46	91.69	821.72	92.19	819.96	92.69
823.44	91.70	821.69	92.20	819.92	92.70
823.40	91.71	821.66	92.21	819.88	92.71
823.37	91.72	821.62	92.22	819.85	92.72
823.34	91.73	821.58	92.23	819.82	92.73
823.30	91.74	821.55	92.24	819.78	92.74
823.26	91.75	821.52	92.25	819.74	92.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
819.71	92.76	817.90	93.26	816.08	93.76
819.68	92.77	817.87	93.27	816.04	93.77
819.64	92.78	817.83	93.28	816.00	93.78
819.60	92.79	817.80	93.29	815.97	93.79
819.57	92.80	817.76	93.30	815.93	93.80
819.53	92.81	817.72	93.31	815.89	93.81
819.50	92.82	817.69	93.32	815.85	93.82
819.46	92.83	817.65	93.33	815.82	93.83
819.43	92.84	817.62	93.34	815.78	93.84
819.39	92.85	817.58	93.35	815.74	93.85
819.35	92.86	817.54	93.36	815.70	93.86
819.32	92.87	817.51	93.37	815.66	93.87
819.28	92.88	817.47	93.38	815.63	93.88
819.25	92.89	817.44	93.39	815.59	93.89
819.21	92.90	817.40	93.40	815.55	93.90
819.17	92.91	817.36	93.41	815.51	93.91
819.14	92.92	817.33	93.42	815.48	93.92
819.10	92.93	817.29	93.43	815.44	93.93
819.07	92.94	817.25	93.44	815.40	93.94
819.03	92.95	817.22	93.45	815.36	93.95
818.99	92.96	817.18	93.46	815.33	93.96
818.96	92.97	817.14	93.47	815.29	93.97
818.92	92.98	817.10	93.48	815.25	93.98
818.89	92.99	817.07	93.49	815.22	93.99
818.85	93.00	817.03	93.50	815.18	94.00
818.81	93.01	816.99	93.51	815.14	94.01
818.78	93.02	816.96	93.52	815.11	94.02
818.74	93.03	816.92	93.53	815.07	94.03
818.71	93.04	816.88	93.54	815.03	94.04
818.67	93.05	816.84	93.55	815.00	94.05
818.63	93.06	816.81	93.56	814.96	94.06
818.60	93.07	816.77	93.57	814.92	94.07
818.56	93.08	816.73	93.58	814.88	94.08
818.53	93.09	816.70	93.59	814.85	94.09
818.49	93.10	816.66	93.60	814.81	94.10
818.45	93.11	816.62	93.61	814.77	94.11
818.42	93.12	816.59	93.62	814.73	94.12
818.38	93.13	816.55	93.63	814.70	94.13
818.34	93.14	816.52	93.64	814.66	94.14
818.30	93.15	816.48	93.65	814.62	94.15
818.27	93.16	816.44	93.66	814.58	94.16
818.23	93.17	816.41	93.67	814.54	94.17
818.19	93.18	816.37	93.68	814.51	94.18
818.16	93.19	816.34	93.69	814.47	94.19
818.12	93.20	816.30	93.70	814.43	94.20
818.08	93.21	816.26	93.71	814.39	94.21
818.05	93.22	816.23	93.72	814.36	94.22
818.01	93.23	816.19	93.73	814.32	94.23
817.98	93.24	816.15	93.74	814.28	94.24
817.94	93.25	816.12	93.75	814.24	94.25



表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
814.21	94.26	812.31	94.76	810.37	95.26
814.17	94.27	812.27	94.77	810.33	95.27
814.13	94.28	812.23	94.78	810.29	95.28
814.10	94.29	812.19	94.79	810.25	95.29
814.06	94.30	812.15	94.80	810.21	95.30
814.02	94.31	812.11	94.81	810.17	95.31
813.98	94.32	812.07	94.82	810.13	95.32
813.95	94.33	812.04	94.83	810.09	95.33
813.91	94.34	812.00	94.84	810.05	95.34
813.87	94.35	811.96	94.85	810.02	95.35
813.83	94.36	811.92	94.86	809.98	95.36
813.79	94.37	811.88	94.87	809.94	95.37
813.76	94.38	811.85	94.88	809.90	95.38
813.72	94.39	811.81	94.89	809.86	95.39
813.68	94.40	811.77	94.90	809.82	95.40
813.64	94.41	811.73	94.91	809.78	95.41
813.60	94.42	811.69	94.92	809.74	95.42
813.57	94.43	811.65	94.93	809.70	95.43
813.53	94.44	811.61	94.94	809.66	95.44
813.49	94.45	811.58	94.95	809.62	95.45
813.45	94.46	811.54	94.96	809.58	95.46
813.41	94.47	811.50	94.97	809.54	95.47
813.38	94.48	811.46	94.98	809.50	95.48
813.34	94.49	811.42	94.99	809.46	95.49
813.30	94.50	811.38	95.00	809.42	95.50
813.26	94.51	811.34	95.01	809.38	95.51
813.22	94.52	811.30	95.02	809.34	95.52
813.19	94.53	811.26	95.03	809.30	95.53
813.15	94.54	811.22	95.04	809.26	95.54
813.11	94.55	811.18	95.05	809.22	95.55
813.07	94.56	811.15	95.06	809.18	95.56
813.03	94.57	811.11	95.07	809.14	95.57
813.00	94.58	811.07	95.08	809.10	95.58
812.96	94.59	811.03	95.09	809.06	95.59
812.92	94.60	810.99	95.10	809.02	95.60
812.88	94.61	810.95	95.11	808.98	95.61
812.84	94.62	810.91	95.12	808.94	95.62
812.81	94.63	810.87	95.13	808.90	95.63
812.77	94.64	810.83	95.14	808.86	95.64
812.73	94.65	810.80	95.15	808.82	95.65
812.69	94.66	810.76	95.16	808.79	95.66
812.65	94.67	810.72	95.17	808.75	95.67
812.62	94.68	810.68	95.18	808.71	95.68
812.58	94.69	810.64	95.19	808.67	95.69
812.54	94.70	810.60	95.20	808.63	95.70
812.50	94.71	810.56	95.21	808.59	95.71
812.46	94.72	810.52	95.22	808.55	95.72
812.42	94.73	810.48	95.23	808.51	95.73
812.38	94.74	810.44	95.24	808.47	95.74
812.34	94.75	810.40	95.25	808.43	95.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
808.39	95.76	806.36	96.26	804.29	96.76
808.35	95.77	806.32	96.27	804.25	96.77
808.31	95.78	806.28	96.28	804.20	96.78
808.27	95.79	806.24	96.29	804.16	96.79
808.23	95.80	806.20	96.30	804.12	96.80
808.19	95.81	806.16	96.31	804.08	96.81
808.15	95.82	806.12	96.32	804.04	96.82
808.11	95.83	806.07	96.33	803.99	96.83
808.07	95.84	806.03	96.34	803.95	96.84
808.02	95.85	805.99	96.35	803.91	96.85
807.98	95.86	805.95	96.36	803.87	96.86
807.94	95.87	805.91	96.37	803.83	96.87
807.90	95.88	805.86	96.38	803.78	96.88
807.86	95.89	805.82	96.39	803.74	96.89
807.82	95.90	805.78	96.40	803.70	96.90
807.78	95.91	805.74	96.41	803.66	96.91
807.74	95.92	805.70	96.42	803.61	96.92
807.70	95.93	805.66	96.43	803.57	96.93
807.66	95.94	805.62	96.44	803.53	96.94
807.62	95.95	805.58	96.45	803.48	96.95
807.58	95.96	805.53	96.46	803.44	96.96
807.54	95.97	805.49	96.47	803.40	96.97
807.50	95.98	805.45	96.48	803.36	96.98
807.46	95.99	805.41	96.49	803.31	96.99
807.42	96.00	805.37	96.50	803.27	97.00
807.38	96.01	805.33	96.51	803.23	97.01
807.34	96.02	805.29	96.52	803.19	97.02
807.30	96.03	805.25	96.53	803.14	97.03
807.26	96.04	805.21	96.54	803.10	97.04
807.22	96.05	805.16	96.55	803.06	97.05
807.17	96.06	805.12	96.56	803.02	97.06
807.13	96.07	805.08	96.57	802.98	97.07
807.09	96.08	805.04	96.58	802.93	97.08
807.05	96.09	805.00	96.59	802.89	97.09
807.01	96.10	804.96	96.60	802.85	97.10
806.97	96.11	804.92	96.61	802.81	97.11
806.93	96.12	804.88	96.62	802.76	97.12
806.89	96.13	804.83	96.63	802.72	97.13
806.85	96.14	804.79	96.64	802.68	97.14
806.81	96.15	804.75	96.65	802.64	97.15
806.77	96.16	804.71	96.66	802.59	97.16
806.73	96.17	804.67	96.67	802.55	97.17
806.69	96.18	804.62	96.68	802.51	97.18
806.65	96.19	804.58	96.69	802.46	97.19
806.61	96.20	804.54	96.70	802.42	97.20
806.57	96.21	804.50	96.71	802.38	97.21
806.53	96.22	804.46	96.72	802.33	97.22
806.49	96.23	804.41	96.73	802.29	97.23
806.45	96.24	804.37	96.74	802.25	97.24
806.40	96.25	804.33	96.75	802.20	97.25

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃)(续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
802.16	97.26	799.98	97.76	797.72	98.26
802.12	97.27	799.93	97.77	797.68	98.27
802.08	97.28	799.89	97.78	797.63	98.28
802.03	97.29	799.84	97.79	797.59	98.29
801.99	97.30	799.80	97.80	797.54	98.30
801.95	97.31	799.76	97.81	797.49	98.31
801.90	97.32	799.71	97.82	797.45	98.32
801.85	97.33	799.66	97.83	797.40	98.33
801.81	97.34	799.62	97.84	797.36	98.34
801.77	97.35	799.58	97.85	797.31	98.35
801.73	97.36	799.53	97.86	797.26	98.36
801.68	97.37	799.48	97.87	797.22	98.37
801.64	97.38	799.44	97.88	797.17	98.38
801.59	97.39	799.40	97.89	797.13	98.39
801.55	97.40	799.35	97.90	797.08	98.40
801.51	97.41	799.30	97.91	797.03	98.41
801.46	97.42	799.26	97.92	796.99	98.42
801.42	97.43	799.22	97.93	796.94	98.43
801.38	97.44	799.17	97.94	796.90	98.44
801.34	97.45	799.12	97.95	796.85	98.45
801.29	97.46	799.08	97.96	796.80	98.46
801.25	97.47	799.04	97.97	796.76	98.47
801.21	97.48	798.99	97.98	796.71	98.48
801.16	97.49	798.94	97.99	796.67	98.49
801.12	97.50	798.90	98.00	796.62	98.50
801.08	97.51	798.86	98.01	796.57	98.51
801.03	97.52	798.81	98.02	796.53	98.52
800.99	97.53	798.76	98.03	796.48	98.53
800.94	97.54	798.72	98.04	796.43	98.54
800.90	97.55	798.68	98.05	796.38	98.55
800.86	97.56	798.63	98.06	796.34	98.56
800.81	97.57	798.58	98.07	796.29	98.57
800.77	97.58	798.54	98.08	796.24	98.58
800.72	97.59	798.50	98.09	796.20	98.59
800.68	97.60	798.45	98.10	796.15	98.60
800.64	97.61	798.40	98.11	796.10	98.61
800.59	97.62	798.36	98.12	796.06	98.62
800.55	97.63	798.32	98.13	796.01	98.63
800.50	97.64	798.27	98.14	795.96	98.64
800.46	97.65	798.22	98.15	795.92	98.65
800.42	97.66	798.18	98.16	795.87	98.66
800.37	97.67	798.14	98.17	795.82	98.67
800.33	97.68	798.09	98.18	795.77	98.68
800.28	97.69	798.04	98.19	795.73	98.69
800.24	97.70	798.00	98.20	795.68	98.70
800.20	97.71	797.95	98.21	795.63	98.71
800.15	97.72	797.91	98.22	795.59	98.72
800.11	97.73	797.86	98.23	795.54	98.73
800.06	97.74	797.82	98.24	795.49	98.74
800.02	97.75	797.77	98.25	795.44	98.75

表 A.1 酒精水溶液密度与乙醇浓度(酒精度)对照表(20 ℃) (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
795.40	98.76	793.33	99.19	791.39	99.58
795.35	98.77	793.28	99.20	791.34	99.59
795.30	98.78	793.43	99.17	791.29	99.60
795.26	98.79	793.38	99.18	791.24	99.61
795.21	98.80	793.33	99.19	791.19	99.62
795.16	98.81	793.28	99.20	791.14	99.63
795.11	98.82	793.23	99.21	791.09	99.64
795.07	98.83	793.18	99.22	791.04	99.65
795.02	98.84	793.13	99.23	790.99	99.66
794.97	98.85	793.08	99.24	790.94	99.67
794.92	98.86	793.04	99.25	790.89	99.68
794.87	98.87	792.99	99.26	790.84	99.69
794.83	98.88	792.94	99.27	790.79	99.70
794.78	98.89	792.89	99.28	790.74	99.71
794.73	98.90	792.84	99.29	790.69	99.72
794.68	98.91	792.79	99.30	790.64	99.73
794.63	98.92	792.74	99.31	790.59	99.74
794.59	98.93	792.69	99.32	790.54	99.75
794.54	98.94	792.64	99.33	790.43	99.77
794.49	98.95	792.59	99.34	790.38	99.78
794.44	98.96	792.54	99.35	790.33	99.79
794.39	98.97	792.50	99.36	790.28	99.80
794.35	98.98	792.45	99.37	790.23	99.81
794.30	98.99	792.40	99.38	790.18	99.82
794.25	99.00	792.35	99.39	790.12	99.83
794.20	99.01	792.30	99.40	790.07	99.84
794.15	99.02	792.25	99.41	790.02	99.85
794.11	99.03	792.20	99.42	789.97	99.86
794.06	99.04	792.15	99.43	789.92	99.87
794.01	99.05	792.10	99.44	789.86	99.88
793.96	99.06	792.05	99.45	789.81	99.89
793.91	99.07	792.00	99.46	789.76	99.90
793.87	99.08	791.95	99.47	789.71	99.91
793.82	99.09	791.90	99.48	789.66	99.92
793.77	99.10	791.85	99.49	789.60	99.93
793.72	99.11	791.80	99.50	789.55	99.94
793.67	99.12	791.75	99.51	789.50	99.95
793.62	99.13	791.70	99.52	789.45	99.96
793.57	99.14	791.65	99.53	789.40	99.97
793.52	99.15	791.60	99.54	789.34	99.98
793.48	99.16	791.54	99.55	789.29	99.99
793.43	99.17	791.49	99.56	789.24	100.00
793.38	99.18	791.44	99.57	—	—

附 录 B  
酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表

酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表见表 B.1。

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表

酒精度 % vol	酒精计温度 ℃									酒精度 % vol
	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	
0.5	1.33	1.28	1.23	1.16	1.09	1.01	0.92	0.83	0.73	0.5
1.0	1.84	1.79	1.74	1.67	1.60	1.52	1.43	1.33	1.23	1.0
1.5	2.36	2.31	2.25	2.18	2.11	2.03	1.94	1.84	1.73	1.5
2.0	2.87	2.82	2.76	2.70	2.62	2.54	2.44	2.34	2.24	2.0
2.5	3.39	3.34	3.28	3.21	3.13	3.05	2.95	2.85	2.74	2.5
3.0	3.91	3.86	3.80	3.72	3.64	3.56	3.46	3.36	3.25	3.0
3.5	4.43	4.38	4.31	4.24	4.16	4.07	3.97	3.86	3.75	3.5
4.0	4.96	4.90	4.83	4.76	4.67	4.58	4.48	4.37	4.25	4.0
4.5	5.49	5.43	5.36	5.28	5.19	5.10	4.99	4.88	4.76	4.5
5.0	6.02	5.95	5.88	5.80	5.71	5.61	5.50	5.39	5.27	5.0
5.5	6.55	6.48	6.41	6.32	6.23	6.13	6.02	5.90	5.77	5.5
6.0	7.08	7.01	6.93	6.85	6.75	6.64	6.53	6.41	6.28	6.0
6.5	7.62	7.55	7.46	7.37	7.27	7.16	7.04	6.92	6.79	6.5
7.0	8.16	8.08	8.00	7.90	7.79	7.68	7.56	7.43	7.29	7.0
7.5	8.70	8.62	8.53	8.43	8.32	8.20	8.08	7.94	7.80	7.5
8.0	9.25	9.16	9.07	8.96	8.85	8.72	8.59	8.46	8.31	8.0
8.5	9.80	9.71	9.61	9.49	9.38	9.25	9.11	8.97	8.82	8.5
9.0	10.35	10.25	10.15	10.03	9.91	9.77	9.63	9.48	9.33	9.0
9.5	10.91	10.80	10.69	10.57	10.44	10.30	10.15	10.00	9.84	9.5
10.0	11.47	11.36	11.24	11.11	10.97	10.83	10.67	10.52	10.35	10.0
10.5	12.03	11.91	11.79	11.65	11.51	11.35	11.20	11.03	10.86	10.5
11.0	12.60	12.47	12.34	12.19	12.04	11.88	11.72	11.55	11.37	11.0
11.5	13.17	13.03	12.89	12.74	12.58	12.42	12.24	12.07	11.88	11.5
12.0	13.74	13.60	13.45	13.29	13.12	12.95	12.77	12.59	12.40	12.0
12.5	14.32	14.16	14.00	13.84	13.66	13.48	13.30	13.11	12.91	12.5
13.0	14.90	14.73	14.56	14.39	14.21	14.02	13.82	13.63	13.42	13.0
13.5	15.48	15.31	15.13	14.94	14.75	14.55	14.35	14.15	13.93	13.5
14.0	16.06	15.88	15.69	15.50	15.30	15.09	14.88	14.67	14.45	14.0
14.5	16.65	16.46	16.26	16.05	15.84	15.63	15.41	15.19	14.96	14.5
15.0	17.24	17.04	16.82	16.61	16.39	16.17	15.94	15.71	15.48	15.0
15.5	17.83	17.61	17.39	17.17	16.94	16.71	16.47	16.23	15.99	15.5
16.0	18.43	18.20	17.96	17.73	17.49	17.25	17.00	16.76	16.51	16.0
16.5	19.02	18.78	18.53	18.29	18.04	17.79	17.53	17.28	17.02	16.5
17.0	19.61	19.36	19.10	18.85	18.59	18.33	18.07	17.80	17.54	17.0
17.5	20.21	19.94	19.67	19.41	19.14	18.87	18.60	18.32	18.05	17.5

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃									酒精度 % vol
	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	
0.5	0.62	0.50	0.38	0.25	0.11	—	—	—	—	0.5
1.0	1.12	1.00	0.87	0.74	0.60	0.46	0.31	0.15	—	1.0
1.5	1.62	1.50	1.37	1.24	1.10	0.95	0.80	0.64	0.48	1.5
2.0	2.12	2.00	1.87	1.74	1.59	1.45	1.29	1.13	0.96	2.0
2.5	2.62	2.50	2.37	2.23	2.09	1.94	1.78	1.62	1.45	2.5
3.0	3.13	3.00	2.87	2.73	2.58	2.43	2.27	2.10	1.93	3.0
3.5	3.63	3.50	3.36	3.22	3.07	2.92	2.76	2.59	2.42	3.5
4.0	4.13	4.00	3.86	3.72	3.57	3.41	3.24	3.07	2.90	4.0
4.5	4.63	4.50	4.36	4.21	4.06	3.90	3.73	3.56	3.38	4.5
5.0	5.14	5.00	4.86	4.71	4.55	4.39	4.22	4.04	3.86	5.0
5.5	5.64	5.50	5.35	5.20	5.04	4.87	4.70	4.52	4.34	5.5
6.0	6.14	6.00	5.85	5.69	5.53	5.36	5.19	5.00	4.82	6.0
6.5	6.65	6.50	6.35	6.19	6.02	5.85	5.67	5.49	5.30	6.5
7.0	7.15	7.00	6.84	6.68	6.51	6.33	6.15	5.96	5.77	7.0
7.5	7.65	7.50	7.34	7.17	7.00	6.82	6.63	6.44	6.25	7.5
8.0	8.16	8.00	7.83	7.66	7.49	7.30	7.11	6.92	6.72	8.0
8.5	8.66	8.50	8.33	8.15	7.97	7.79	7.59	7.40	7.19	8.5
9.0	9.17	9.00	8.83	8.65	8.46	8.27	8.07	7.87	7.66	9.0
9.5	9.67	9.50	9.32	9.14	8.95	8.75	8.55	8.35	8.13	9.5
10.0	10.18	10.00	9.82	9.63	9.43	9.23	9.03	8.82	8.60	10.0
10.5	10.68	10.50	10.31	10.12	9.92	9.71	9.50	9.29	9.07	10.5
11.0	11.19	11.00	10.81	10.61	10.40	10.19	9.98	9.76	9.54	11.0
11.5	11.69	11.50	11.30	11.10	10.89	10.67	10.45	10.23	10.00	11.5
12.0	12.20	12.00	11.79	11.58	11.37	11.15	10.93	10.70	10.47	12.0
12.5	12.71	12.50	12.29	12.07	11.85	11.63	11.40	11.17	10.93	12.5
13.0	13.21	13.00	12.78	12.56	12.34	12.11	11.87	11.64	11.40	13.0
13.5	13.72	13.50	13.28	13.05	12.82	12.58	12.34	12.10	11.86	13.5
14.0	14.23	14.00	13.77	13.54	13.30	13.06	12.81	12.57	12.32	14.0
14.5	14.73	14.50	14.26	14.02	13.78	13.53	13.29	13.03	12.78	14.5
15.0	15.24	15.00	14.76	14.51	14.26	14.01	13.75	13.50	13.24	15.0
15.5	15.75	15.50	15.25	15.00	14.74	14.48	14.22	13.96	13.70	15.5
16.0	16.25	16.00	15.74	15.48	15.22	14.96	14.69	14.42	14.15	16.0
16.5	16.76	16.50	16.24	15.97	15.70	15.43	15.16	14.89	14.61	16.5
17.0	17.27	17.00	16.73	16.46	16.18	15.91	15.63	15.35	15.07	17.0
17.5	17.78	17.50	17.22	16.94	16.66	16.38	16.10	15.81	15.53	17.5

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃								酒精度 % vol
	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	
0.5	—	—	—	—	—	—	—	—	0.5
1.0	—	—	—	—	—	—	—	—	1.0
1.5	0.31	0.14	—	—	—	—	—	—	1.5
2.0	0.79	0.62	0.43	0.25	0.06	—	—	—	2.0
2.5	1.28	1.10	0.91	0.72	0.53	0.33	0.13	—	2.5
3.0	1.76	1.58	1.39	1.20	1.00	0.80	0.60	0.39	3.0
3.5	2.24	2.05	1.86	1.67	1.47	1.27	1.06	0.85	3.5
4.0	2.72	2.53	2.34	2.14	1.94	1.73	1.52	1.31	4.0
4.5	3.20	3.01	2.81	2.61	2.41	2.20	1.98	1.77	4.5
5.0	3.67	3.48	3.28	3.08	2.87	2.66	2.45	2.22	5.0
5.5	4.15	3.96	3.76	3.55	3.34	3.13	2.91	2.68	5.5
6.0	4.63	4.43	4.23	4.02	3.80	3.59	3.36	3.14	6.0
6.5	5.10	4.90	4.69	4.48	4.27	4.05	3.82	3.59	6.5
7.0	5.57	5.37	5.16	4.95	4.73	4.51	4.28	4.04	7.0
7.5	6.04	5.84	5.63	5.41	5.19	4.96	4.73	4.50	7.5
8.0	6.52	6.31	6.09	5.87	5.65	5.42	5.18	4.95	8.0
8.5	6.98	6.77	6.55	6.33	6.10	5.87	5.64	5.40	8.5
9.0	7.45	7.24	7.02	6.79	6.56	6.32	6.09	5.84	9.0
9.5	7.92	7.70	7.48	7.25	7.01	6.78	6.53	6.29	9.5
10.0	8.38	8.16	7.93	7.70	7.47	7.22	6.98	6.73	10.0
10.5	8.85	8.62	8.39	8.16	7.92	7.67	7.42	7.17	10.5
11.0	9.31	9.08	8.85	8.61	8.36	8.12	7.87	7.61	11.0
11.5	9.77	9.54	9.30	9.06	8.81	8.56	8.31	8.05	11.5
12.0	10.23	10.00	9.75	9.51	9.26	9.00	8.75	8.49	12.0
12.5	10.69	10.45	10.20	9.95	9.70	9.44	9.19	8.92	12.5
13.0	11.15	10.90	10.65	10.40	10.14	9.88	9.62	9.36	13.0
13.5	11.61	11.36	11.10	10.85	10.59	10.32	10.06	9.79	13.5
14.0	12.07	11.81	11.55	11.29	11.03	10.76	10.49	10.22	14.0
14.5	12.52	12.26	12.00	11.73	11.46	11.19	10.92	10.65	14.5
15.0	12.98	12.71	12.44	12.17	11.90	11.63	11.35	11.07	15.0
15.5	13.43	13.16	12.89	12.61	12.34	12.06	11.78	11.50	15.5
16.0	13.88	13.61	13.33	13.05	12.78	12.49	12.21	11.92	16.0
16.5	14.34	14.06	13.78	13.49	13.21	12.93	12.64	12.35	16.5
17.0	14.79	14.50	14.22	13.93	13.65	13.36	13.07	12.77	17.0
17.5	15.24	14.95	14.66	14.37	14.08	13.79	13.49	13.20	17.5
18.0	15.69	15.40	15.11	14.81	14.51	14.22	13.92	13.62	18.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
18.0	20.80	20.66	20.52	20.38	20.25	20.11	19.97	19.83	19.69	19.55	19.41	18.0
18.1	20.92	20.78	20.64	20.50	20.36	20.22	20.08	19.94	19.80	19.66	19.52	18.1
18.2	21.04	20.90	20.76	20.61	20.47	20.33	20.19	20.05	19.91	19.77	19.62	18.2
18.3	21.16	21.01	20.87	20.73	20.59	20.44	20.30	20.16	20.02	19.88	19.73	18.3
18.4	21.28	21.13	20.99	20.84	20.70	20.56	20.41	20.27	20.13	19.98	19.84	18.4
18.5	21.39	21.25	21.10	20.96	20.81	20.67	20.53	20.38	20.24	20.09	19.95	18.5
18.6	21.51	21.37	21.22	21.07	20.93	20.78	20.64	20.49	20.35	20.20	20.06	18.6
18.7	21.63	21.48	21.34	21.19	21.04	20.90	20.75	20.60	20.46	20.31	20.16	18.7
18.8	21.75	21.60	21.45	21.30	21.16	21.01	20.86	20.71	20.57	20.42	20.27	18.8
18.9	21.87	21.72	21.57	21.42	21.27	21.12	20.97	20.82	20.68	20.53	20.38	18.9
19.0	21.99	21.83	21.68	21.53	21.38	21.23	21.08	20.94	20.79	20.64	20.49	19.0
19.1	22.10	21.95	21.80	21.65	21.50	21.35	21.20	21.05	20.90	20.75	20.60	19.1
19.2	22.22	22.07	21.92	21.76	21.61	21.46	21.31	21.16	21.01	20.85	20.70	19.2
19.3	22.34	22.18	22.03	21.88	21.72	21.57	21.42	21.27	21.12	20.96	20.81	19.3
19.4	22.46	22.30	22.15	21.99	21.84	21.68	21.53	21.38	21.22	21.07	20.92	19.4
19.5	22.57	22.42	22.26	22.11	21.95	21.80	21.64	21.49	21.33	21.18	21.03	19.5
19.6	22.69	22.53	22.38	22.22	22.06	21.91	21.75	21.60	21.44	21.29	21.14	19.6
19.7	22.81	22.65	22.49	22.33	22.18	22.02	21.86	21.71	21.55	21.40	21.24	19.7
19.8	22.93	22.77	22.61	22.45	22.29	22.13	21.98	21.82	21.66	21.51	21.35	19.8
19.9	23.04	22.88	22.72	22.56	22.40	22.25	22.09	21.93	21.77	21.61	21.46	19.9
20.0	23.16	23.00	22.84	22.68	22.52	22.36	22.20	22.04	21.88	21.72	21.57	20.0
20.1	23.28	23.12	22.95	22.79	22.63	22.47	22.31	22.15	21.99	21.83	21.67	20.1
20.2	23.39	23.23	23.07	22.91	22.74	22.58	22.42	22.26	22.10	21.94	21.78	20.2
20.3	23.51	23.35	23.18	23.02	22.86	22.69	22.53	22.37	22.21	22.05	21.89	20.3
20.4	23.63	23.46	23.30	23.13	22.97	22.81	22.64	22.48	22.32	22.16	22.00	20.4
20.5	23.74	23.58	23.41	23.25	23.08	22.92	22.75	22.59	22.43	22.26	22.10	20.5
20.6	23.86	23.69	23.53	23.36	23.19	23.03	22.86	22.70	22.54	22.37	22.21	20.6
20.7	23.98	23.81	23.64	23.47	23.31	23.14	22.97	22.81	22.65	22.48	22.32	20.7
20.8	24.09	23.92	23.75	23.59	23.42	23.25	23.09	22.92	22.75	22.59	22.42	20.8
20.9	24.21	24.04	23.87	23.70	23.53	23.36	23.20	23.03	22.86	22.70	22.53	20.9
21.0	24.33	24.15	23.98	23.81	23.64	23.47	23.31	23.14	22.97	22.81	22.64	21.0
21.1	24.44	24.27	24.10	23.93	23.76	23.59	23.42	23.25	23.08	22.91	22.75	21.1
21.2	24.56	24.38	24.21	24.04	23.87	23.70	23.53	23.36	23.19	23.02	22.85	21.2
21.3	24.67	24.50	24.32	24.15	23.98	23.81	23.64	23.47	23.30	23.13	22.96	21.3
21.4	24.79	24.61	24.44	24.26	24.09	23.92	23.75	23.58	23.41	23.24	23.07	21.4
21.5	24.90	24.73	24.55	24.38	24.20	24.03	23.86	23.69	23.51	23.34	23.17	21.5
21.6	25.02	24.84	24.66	24.49	24.31	24.14	23.97	23.79	23.62	23.45	23.28	21.6
21.7	25.13	24.95	24.78	24.60	24.43	24.25	24.08	23.90	23.73	23.56	23.39	21.7
21.8	25.25	25.07	24.89	24.71	24.54	24.36	24.19	24.01	23.84	23.67	23.49	21.8
21.9	25.36	25.18	25.00	24.83	24.65	24.47	24.30	24.12	23.95	23.77	23.60	21.9
22.0	25.48	25.30	25.12	24.94	24.76	24.58	24.41	24.23	24.06	23.88	23.71	22.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
22.0	25.48	25.30	25.12	24.94	24.76	24.58	24.41	24.23	24.06	23.88	23.71	22.0
22.1	25.59	25.41	25.23	25.05	24.87	24.69	24.52	24.34	24.16	23.99	23.81	22.1
22.2	25.70	25.52	25.34	25.16	24.98	24.80	24.62	24.45	24.27	24.10	23.92	22.2
22.3	25.82	25.64	25.45	25.27	25.09	24.91	24.73	24.56	24.38	24.20	24.03	22.3
22.4	25.93	25.75	25.57	25.38	25.20	25.02	24.84	24.67	24.49	24.31	24.13	22.4
22.5	26.05	25.86	25.68	25.50	25.31	25.13	24.95	24.77	24.60	24.42	24.24	22.5
22.6	26.16	25.97	25.79	25.61	25.42	25.24	25.06	24.88	24.70	24.52	24.35	22.6
22.7	26.27	26.09	25.90	25.72	25.53	25.35	25.17	24.99	24.81	24.63	24.45	22.7
22.8	26.39	26.20	26.01	25.83	25.64	25.46	25.28	25.10	24.92	24.74	24.56	22.8
22.9	26.50	26.31	26.12	25.94	25.75	25.57	25.39	25.21	25.03	24.84	24.67	22.9
23.0	26.61	26.42	26.24	26.05	25.86	25.68	25.50	25.31	25.13	24.95	24.77	23.0
23.1	26.72	26.53	26.35	26.16	25.97	25.79	25.61	25.42	25.24	25.06	24.88	23.1
23.2	26.84	26.65	26.46	26.27	26.08	25.90	25.71	25.53	25.35	25.16	24.98	23.2
23.3	26.95	26.76	26.57	26.38	26.19	26.01	25.82	25.64	25.45	25.27	25.09	23.3
23.4	27.06	26.87	26.68	26.49	26.30	26.12	25.93	25.75	25.56	25.38	25.19	23.4
23.5	27.17	26.98	26.79	26.60	26.41	26.23	26.04	25.85	25.67	25.48	25.30	23.5
23.6	27.28	27.09	26.90	26.71	26.52	26.33	26.15	25.96	25.77	25.59	25.41	23.6
23.7	27.40	27.20	27.01	26.82	26.63	26.44	26.25	26.07	25.88	25.70	25.51	23.7
23.8	27.51	27.31	27.12	26.93	26.74	26.55	26.36	26.17	25.99	25.80	25.62	23.8
23.9	27.62	27.42	27.23	27.04	26.85	26.66	26.47	26.28	26.09	25.91	25.72	23.9
24.0	27.73	27.54	27.34	27.15	26.96	26.77	26.58	26.39	26.20	26.01	25.83	24.0
24.1	27.84	27.65	27.45	27.26	27.07	26.88	26.69	26.50	26.31	26.12	25.93	24.1
24.2	27.95	27.76	27.56	27.37	27.17	26.98	26.79	26.60	26.41	26.23	26.04	24.2
24.3	28.06	27.87	27.67	27.48	27.28	27.09	26.90	26.71	26.52	26.33	26.14	24.3
24.4	28.17	27.98	27.78	27.59	27.39	27.20	27.01	26.82	26.63	26.44	26.25	24.4
24.5	28.28	28.09	27.89	27.69	27.50	27.31	27.11	26.92	26.73	26.54	26.35	24.5
24.6	28.39	28.19	28.00	27.80	27.61	27.41	27.22	27.03	26.84	26.65	26.46	24.6
24.7	28.50	28.30	28.11	27.91	27.72	27.52	27.33	27.14	26.94	26.75	26.56	24.7
24.8	28.61	28.41	28.22	28.02	27.82	27.63	27.44	27.24	27.05	26.86	26.67	24.8
24.9	28.72	28.52	28.32	28.13	27.93	27.74	27.54	27.35	27.16	26.96	26.77	24.9
25.0	28.83	28.63	28.43	28.24	28.04	27.84	27.65	27.45	27.26	27.07	26.88	25.0
25.1	28.94	28.74	28.54	28.34	28.15	27.95	27.75	27.56	27.37	27.17	26.98	25.1
25.2	29.05	28.85	28.65	28.45	28.25	28.06	27.86	27.67	27.47	27.28	27.09	25.2
25.3	29.16	28.96	28.76	28.56	28.36	28.16	27.97	27.77	27.58	27.38	27.19	25.3
25.4	29.27	29.07	28.86	28.67	28.47	28.27	28.07	27.88	27.68	27.49	27.30	25.4
25.5	29.37	29.17	28.97	28.77	28.57	28.38	28.18	27.98	27.79	27.59	27.40	25.5
25.6	29.48	29.28	29.08	28.88	28.68	28.48	28.29	28.09	27.89	27.70	27.50	25.6
25.7	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.19	28.00	27.80	27.61	25.7
25.8	29.70	29.50	29.29	29.09	28.89	28.70	28.50	28.30	28.10	27.91	27.71	25.8
25.9	29.81	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	25.9
26.0	29.91	29.71	29.51	29.31	29.11	28.91	28.71	28.51	28.31	28.12	27.92	26.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
26.0	29.91	29.71	29.51	29.31	29.11	28.91	28.71	28.51	28.31	28.12	27.92	26.0
26.1	30.02	29.82	29.62	29.41	29.21	29.01	28.81	28.62	28.42	28.22	28.03	26.1
26.2	30.13	29.93	29.72	29.52	29.32	29.12	28.92	28.72	28.52	28.33	28.13	26.2
26.3	30.24	30.03	29.83	29.63	29.43	29.22	29.02	28.83	28.63	28.43	28.23	26.3
26.4	30.34	30.14	29.94	29.73	29.53	29.33	29.13	28.93	28.73	28.53	28.34	26.4
26.5	30.45	30.25	30.04	29.84	29.64	29.44	29.23	29.03	28.84	28.64	28.44	26.5
26.6	30.56	30.35	30.15	29.94	29.74	29.53	29.34	29.14	28.94	28.74	28.54	26.6
26.7	30.66	30.46	30.25	30.05	29.85	29.65	29.44	29.24	29.04	28.85	28.65	26.7
26.8	30.77	30.57	30.36	30.16	29.95	29.75	29.55	29.35	29.15	28.95	28.75	26.8
26.9	30.88	30.67	30.47	30.26	30.06	29.86	29.65	29.45	29.25	29.05	28.85	26.9
27.0	30.98	30.78	30.57	30.37	30.16	29.96	29.76	29.56	29.36	29.16	28.96	27.0
27.1	31.09	30.88	30.68	30.47	30.27	30.07	29.86	29.66	29.46	29.26	29.06	27.1
27.2	31.20	30.99	30.78	30.58	30.37	30.17	29.97	29.77	29.56	29.36	29.16	27.2
27.3	31.30	31.09	30.89	30.68	30.48	30.27	30.07	29.87	29.67	29.47	29.27	27.3
27.4	31.41	31.20	30.99	30.79	30.58	30.38	30.18	29.97	29.77	29.57	29.37	27.4
27.5	31.51	31.30	31.10	30.89	30.69	30.48	30.28	30.08	29.87	29.67	29.47	27.5
27.6	31.62	31.41	31.20	31.00	30.79	30.59	30.38	30.18	29.98	29.78	29.58	27.6
27.7	31.72	31.51	31.31	31.10	30.90	30.69	30.49	30.28	30.08	29.88	29.68	27.7
27.8	31.83	31.62	31.41	31.21	31.00	30.80	30.59	30.39	30.19	29.98	29.78	27.8
27.9	31.93	31.72	31.52	31.31	31.10	30.90	30.69	30.49	30.29	30.09	29.88	27.9
28.0	32.04	31.83	31.62	31.41	31.21	31.00	30.80	30.59	30.39	30.19	29.99	28.0
28.1	32.14	31.93	31.73	31.52	31.31	31.11	30.90	30.70	30.49	30.29	30.09	28.1
28.2	32.25	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	30.39	30.19	28.2
28.3	32.35	32.14	31.93	31.73	31.52	31.31	31.11	30.90	30.70	30.50	30.29	28.3
28.4	32.45	32.25	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	30.40	28.4
28.5	32.56	32.35	32.14	31.93	31.73	31.52	31.31	31.11	30.91	30.70	30.50	28.5
28.6	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	28.6
28.7	32.77	32.56	32.35	32.14	31.93	31.73	31.52	31.32	31.11	30.91	30.70	28.7
28.8	32.87	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	30.81	28.8
28.9	32.97	32.76	32.55	32.35	32.14	31.93	31.73	31.52	31.32	31.11	30.91	28.9
29.0	33.08	32.87	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	29.0
29.1	33.18	32.97	32.76	32.55	32.35	32.14	31.93	31.73	31.52	31.32	31.11	29.1
29.2	33.28	33.07	32.86	32.66	32.45	32.24	32.03	31.83	31.62	31.42	31.21	29.2
29.3	33.39	33.18	32.97	32.76	32.55	32.34	32.14	31.93	31.73	31.52	31.32	29.3
29.4	33.49	33.28	33.07	32.86	32.65	32.45	32.24	32.03	31.83	31.62	31.42	29.4
29.5	33.59	33.38	33.17	32.96	32.76	32.55	32.34	32.14	31.93	31.72	31.52	29.5
29.6	33.69	33.48	33.27	33.07	32.86	32.65	32.44	32.24	32.03	31.83	31.62	29.6
29.7	33.80	33.59	33.38	33.17	32.96	32.75	32.55	32.34	32.13	31.93	31.72	29.7
29.8	33.90	33.69	33.48	33.27	33.06	32.86	32.65	32.44	32.24	32.03	31.82	29.8
29.9	34.00	33.79	33.58	33.37	33.16	32.96	32.75	32.54	32.34	32.13	31.93	29.9
30.0	34.10	33.89	33.68	33.48	33.27	33.06	32.85	32.65	32.44	32.23	32.03	30.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
30.0	34.10	33.89	33.68	33.48	33.27	33.06	32.85	32.65	32.44	32.23	32.03	30.0
30.1	34.21	34.00	33.79	33.58	33.37	33.16	32.95	32.75	32.54	32.33	32.13	30.1
30.2	34.31	34.10	33.89	33.68	33.47	33.26	33.06	32.85	32.64	32.44	32.23	30.2
30.3	34.41	34.20	33.99	33.78	33.57	33.36	33.16	32.95	32.74	32.54	32.33	30.3
30.4	34.51	34.30	34.09	33.88	33.67	33.47	33.26	33.05	32.85	32.64	32.43	30.4
30.5	34.61	34.40	34.19	33.98	33.78	33.57	33.36	33.15	32.95	32.74	32.53	30.5
30.6	34.71	34.50	34.30	34.09	33.88	33.67	33.46	33.25	33.05	32.84	32.64	30.6
30.7	34.82	34.61	34.40	34.19	33.98	33.77	33.56	33.36	33.15	32.94	32.74	30.7
30.8	34.92	34.71	34.50	34.29	34.08	33.87	33.66	33.46	33.25	33.04	32.84	30.8
30.9	35.02	34.81	34.60	34.39	34.18	33.97	33.77	33.56	33.35	33.15	32.94	30.9
31.0	35.12	34.91	34.70	34.49	34.28	34.07	33.87	33.66	33.45	33.25	33.04	31.0
31.1	35.22	35.01	34.80	34.59	34.38	34.18	33.97	33.76	33.55	33.35	33.14	31.1
31.2	35.32	35.11	34.90	34.69	34.49	34.28	34.07	33.86	33.65	33.45	33.24	31.2
31.3	35.42	35.21	35.00	34.79	34.59	34.38	34.17	33.96	33.76	33.55	33.34	31.3
31.4	35.52	35.31	35.10	34.90	34.69	34.48	34.27	34.06	33.86	33.65	33.44	31.4
31.5	35.62	35.41	35.21	35.00	34.79	34.58	34.37	34.16	33.96	33.75	33.54	31.5
31.6	35.72	35.52	35.31	35.10	34.89	34.68	34.47	34.27	34.06	33.85	33.65	31.6
31.7	35.83	35.62	35.41	35.20	34.99	34.78	34.57	34.37	34.16	33.95	33.75	31.7
31.8	35.93	35.72	35.51	35.30	35.09	34.88	34.67	34.47	34.26	34.05	33.85	31.8
31.9	36.03	35.82	35.61	35.40	35.19	34.98	34.77	34.57	34.36	34.15	33.95	31.9
32.0	36.13	35.92	35.71	35.50	35.29	35.08	34.88	34.67	34.46	34.25	34.05	32.0
32.1	36.23	36.02	35.81	35.60	35.39	35.18	34.98	34.77	34.56	34.35	34.15	32.1
32.2	36.33	36.12	35.91	35.70	35.49	35.28	35.08	34.87	34.66	34.45	34.25	32.2
32.3	36.43	36.22	36.01	35.80	35.59	35.38	35.18	34.97	34.76	34.56	34.35	32.3
32.4	36.53	36.32	36.11	35.90	35.69	35.48	35.28	35.07	34.86	34.66	34.45	32.4
32.5	36.63	36.42	36.21	36.00	35.79	35.58	35.38	35.17	34.96	34.76	34.55	32.5
32.6	36.73	36.52	36.31	36.10	35.89	35.68	35.48	35.27	35.06	34.86	34.65	32.6
32.7	36.83	36.62	36.41	36.20	35.99	35.79	35.58	35.37	35.16	34.96	34.75	32.7
32.8	36.93	36.72	36.51	36.30	36.09	35.89	35.68	35.47	35.26	35.06	34.85	32.8
32.9	37.03	36.82	36.61	36.40	36.19	35.99	35.78	35.57	35.36	35.16	34.95	32.9
33.0	37.13	36.92	36.71	36.50	36.29	36.09	35.88	35.67	35.46	35.26	35.05	33.0
33.1	37.22	37.02	36.81	36.60	36.39	36.19	35.98	35.77	35.56	35.36	35.15	33.1
33.2	37.32	37.12	36.91	36.70	36.49	36.28	36.08	35.87	35.66	35.46	35.25	33.2
33.3	37.42	37.22	37.01	36.80	36.59	36.38	36.18	35.97	35.76	35.56	35.35	33.3
33.4	37.52	37.31	37.11	36.90	36.69	36.48	36.28	36.07	35.86	35.66	35.45	33.4
33.5	37.62	37.41	37.21	37.00	36.79	36.58	36.38	36.17	35.96	35.76	35.55	33.5
33.6	37.72	37.51	37.31	37.10	36.89	36.68	36.48	36.27	36.06	35.86	35.65	33.6
33.7	37.82	37.61	37.41	37.20	36.99	36.78	36.58	36.37	36.16	35.96	35.75	33.7
33.8	37.92	37.71	37.50	37.30	37.09	36.88	36.68	36.47	36.26	36.06	35.85	33.8
33.9	38.02	37.81	37.60	37.40	37.19	36.98	36.78	36.57	36.36	36.16	35.95	33.9
34.0	38.12	37.91	37.70	37.50	37.29	37.08	36.88	36.67	36.46	36.26	36.05	34.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
34.0	38.12	37.91	37.70	37.50	37.29	37.08	36.88	36.67	36.46	36.26	36.05	34.0
34.1	38.22	38.01	37.80	37.59	37.39	37.18	36.97	36.77	36.56	36.36	36.15	34.1
34.2	38.31	38.11	37.90	37.69	37.49	37.28	37.07	36.87	36.66	36.46	36.25	34.2
34.3	38.41	38.21	38.00	37.79	37.59	37.38	37.17	36.97	36.76	36.56	36.35	34.3
34.4	38.51	38.31	38.10	37.89	37.69	37.48	37.27	37.07	36.86	36.65	36.45	34.4
34.5	38.61	38.40	38.20	37.99	37.78	37.58	37.37	37.17	36.96	36.75	36.55	34.5
34.6	38.71	38.50	38.30	38.09	37.88	37.68	37.47	37.27	37.06	36.85	36.65	34.6
34.7	38.81	38.60	38.40	38.19	37.98	37.78	37.57	37.36	37.16	36.95	36.75	34.7
34.8	38.91	38.70	38.49	38.29	38.08	37.88	37.67	37.46	37.26	37.05	36.85	34.8
34.9	39.00	38.80	38.59	38.39	38.18	37.97	37.77	37.56	37.36	37.15	36.95	34.9
35.0	39.10	38.90	38.69	38.49	38.28	38.07	37.87	37.66	37.46	37.25	37.05	35.0
35.1	39.20	39.00	38.79	38.58	38.38	38.17	37.97	37.76	37.56	37.35	37.15	35.1
35.2	39.30	39.09	38.89	38.68	38.48	38.27	38.07	37.86	37.66	37.45	37.25	35.2
35.3	39.40	39.19	38.99	38.78	38.58	38.37	38.17	37.96	37.76	37.55	37.34	35.3
35.4	39.50	39.29	39.09	38.88	38.67	38.47	38.26	38.06	37.85	37.65	37.44	35.4
35.5	39.59	39.39	39.18	38.98	38.77	38.57	38.36	38.16	37.95	37.75	37.54	35.5
35.6	39.69	39.49	39.28	39.08	38.87	38.67	38.46	38.26	38.05	37.85	37.64	35.6
35.7	39.79	39.59	39.38	39.18	38.97	38.77	38.56	38.36	38.15	37.95	37.74	35.7
35.8	39.89	39.68	39.48	39.27	39.07	38.86	38.66	38.46	38.25	38.05	37.84	35.8
35.9	39.99	39.78	39.58	39.37	39.17	38.96	38.76	38.55	38.35	38.15	37.94	35.9
36.0	40.08	39.88	39.68	39.47	39.27	39.06	38.86	38.65	38.45	38.24	38.04	36.0
36.1	40.18	39.98	39.77	39.57	39.37	39.16	38.96	38.75	38.55	38.34	38.14	36.1
36.2	40.28	40.08	39.87	39.67	39.46	39.26	39.06	38.85	38.65	38.44	38.24	36.2
36.3	40.38	40.17	39.97	39.77	39.56	39.36	39.15	38.95	38.75	38.54	38.34	36.3
36.4	40.48	40.27	40.07	39.86	39.66	39.46	39.25	39.05	38.84	38.64	38.44	36.4
36.5	40.57	40.37	40.17	39.96	39.76	39.56	39.35	39.15	38.94	38.74	38.54	36.5
36.6	40.67	40.47	40.26	40.06	39.86	39.65	39.45	39.25	39.04	38.84	38.64	36.6
36.7	40.77	40.57	40.36	40.16	39.96	39.75	39.55	39.35	39.14	38.94	38.73	36.7
36.8	40.87	40.66	40.46	40.26	40.05	39.85	39.65	39.44	39.24	39.04	38.83	36.8
36.9	40.96	40.76	40.56	40.36	40.15	39.95	39.75	39.54	39.34	39.14	38.93	36.9
37.0	41.06	40.86	40.66	40.45	40.25	40.05	39.84	39.64	39.44	39.23	39.03	37.0
37.1	41.16	40.96	40.75	40.55	40.35	40.15	39.94	39.74	39.54	39.33	39.13	37.1
37.2	41.26	41.05	40.85	40.65	40.45	40.24	40.04	39.84	39.64	39.43	39.23	37.2
37.3	41.35	41.15	40.95	40.75	40.54	40.34	40.14	39.94	39.73	39.53	39.33	37.3
37.4	41.45	41.25	41.05	40.85	40.64	40.44	40.24	40.04	39.83	39.63	39.43	37.4
37.5	41.55	41.35	41.15	40.94	40.74	40.54	40.34	40.13	39.93	39.73	39.53	37.5
37.6	41.65	41.45	41.24	41.04	40.84	40.64	40.44	40.23	40.03	39.83	39.63	37.6
37.7	41.74	41.54	41.34	41.14	40.94	40.74	40.53	40.33	40.13	39.93	39.72	37.7
37.8	41.84	41.64	41.44	41.24	41.04	40.83	40.63	40.43	40.23	40.03	39.82	37.8
37.9	41.94	41.74	41.54	41.34	41.13	40.93	40.73	40.53	40.33	40.12	39.92	37.9
38.0	42.04	41.84	41.63	41.43	41.23	41.03	40.83	40.63	40.43	40.22	40.02	38.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
38.0	42.04	41.84	41.63	41.43	41.23	41.03	40.83	40.63	40.43	40.22	40.02	38.0
38.1	42.13	41.93	41.73	41.53	41.33	41.13	40.93	40.73	40.52	40.32	40.12	38.1
38.2	42.23	42.03	41.83	41.63	41.43	41.23	41.03	40.82	40.62	40.42	40.22	38.2
38.3	42.33	42.13	41.93	41.73	41.53	41.32	41.12	40.92	40.72	40.52	40.32	38.3
38.4	42.43	42.23	42.02	41.82	41.62	41.42	41.22	41.02	40.82	40.62	40.42	38.4
38.5	42.52	42.32	42.12	41.92	41.72	41.52	41.32	41.12	40.92	40.72	40.52	38.5
38.6	42.62	42.42	42.22	42.02	41.82	41.62	41.42	41.22	41.02	40.82	40.61	38.6
38.7	42.72	42.52	42.32	42.12	41.92	41.72	41.52	41.32	41.11	40.91	40.71	38.7
38.8	42.81	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	41.01	40.81	38.8
38.9	42.91	42.71	42.51	42.31	42.11	41.91	41.71	41.51	41.31	41.11	40.91	38.9
39.0	43.01	42.81	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	41.01	39.0
39.1	43.11	42.91	42.71	42.51	42.31	42.11	41.91	41.71	41.51	41.31	41.11	39.1
39.2	43.20	43.00	42.80	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	39.2
39.3	43.30	43.10	42.90	42.70	42.50	42.30	42.11	41.91	41.71	41.51	41.31	39.3
39.4	43.40	43.20	43.00	42.80	42.60	42.40	42.20	42.00	41.80	41.60	41.40	39.4
39.5	43.49	43.30	43.10	42.90	42.70	42.50	42.30	42.10	41.90	41.70	41.50	39.5
39.6	43.59	43.39	43.19	43.00	42.80	42.60	42.40	42.20	42.00	41.80	41.60	39.6
39.7	43.69	43.49	43.29	43.09	42.89	42.70	42.50	42.30	42.10	41.90	41.70	39.7
39.8	43.78	43.59	43.39	43.19	42.99	42.79	42.60	42.40	42.20	42.00	41.80	39.8
39.9	43.88	43.68	43.49	43.29	43.09	42.89	42.69	42.49	42.30	42.10	41.90	39.9
40.0	43.98	43.78	43.58	43.39	43.19	42.99	42.79	42.59	42.39	42.20	42.00	40.0
40.1	44.08	43.88	43.68	43.48	43.29	43.09	42.89	42.69	42.49	42.29	42.10	40.1
40.2	44.17	43.98	43.78	43.58	43.38	43.19	42.99	42.79	42.59	42.39	42.19	40.2
40.3	44.27	44.07	43.88	43.68	43.48	43.28	43.09	42.89	42.69	42.49	42.29	40.3
40.4	44.37	44.17	43.97	43.78	43.58	43.38	43.18	42.99	42.79	42.59	42.39	40.4
40.5	44.46	44.27	44.07	43.87	43.68	43.48	43.28	43.08	42.89	42.69	42.49	40.5
40.6	44.56	44.36	44.17	43.97	43.77	43.58	43.38	43.18	42.98	42.79	42.59	40.6
40.7	44.66	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	42.88	42.69	40.7
40.8	44.75	44.56	44.36	44.17	43.97	43.77	43.58	43.38	43.18	42.98	42.79	40.8
40.9	44.85	44.66	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	42.88	40.9
41.0	44.95	44.75	44.56	44.36	44.16	43.97	43.77	43.57	43.38	43.18	42.98	41.0
41.1	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	41.1
41.2	45.14	44.95	44.75	44.56	44.36	44.16	43.97	43.77	43.57	43.38	43.18	41.2
41.3	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	43.48	43.28	41.3
41.4	45.34	45.14	44.95	44.75	44.55	44.36	44.16	43.97	43.77	43.57	43.38	41.4
41.5	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.06	43.87	43.67	43.48	41.5
41.6	45.53	45.33	45.14	44.94	44.75	44.55	44.36	44.16	43.97	43.77	43.57	41.6
41.7	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	41.7
41.8	45.72	45.53	45.33	45.14	44.94	44.75	44.55	44.36	44.16	43.97	43.77	41.8
41.9	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	41.9
42.0	45.92	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.36	44.16	43.97	42.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
42.0	45.92	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.36	44.16	43.97	42.0
42.1	46.01	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	42.1
42.2	46.11	45.92	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.36	44.17	42.2
42.3	46.21	46.01	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	42.3
42.4	46.30	46.11	45.92	45.72	45.53	45.34	45.14	44.95	44.75	44.56	44.36	42.4
42.5	46.40	46.21	46.01	45.82	45.63	45.43	45.24	45.05	44.85	44.66	44.46	42.5
42.6	46.50	46.30	46.11	45.92	45.72	45.53	45.34	45.14	44.95	44.75	44.56	42.6
42.7	46.59	46.40	46.21	46.02	45.82	45.63	45.44	45.24	45.05	44.85	44.66	42.7
42.8	46.69	46.50	46.31	46.11	45.92	45.73	45.53	45.34	45.15	44.95	44.76	42.8
42.9	46.79	46.60	46.40	46.21	46.02	45.82	45.63	45.44	45.24	45.05	44.86	42.9
43.0	46.88	46.69	46.50	46.31	46.12	45.92	45.73	45.54	45.34	45.15	44.95	43.0
43.1	46.98	46.79	46.60	46.41	46.21	46.02	45.83	45.63	45.44	45.25	45.05	43.1
43.2	47.08	46.89	46.69	46.50	46.31	46.12	45.92	45.73	45.54	45.34	45.15	43.2
43.3	47.17	46.98	46.79	46.60	46.41	46.22	46.02	45.83	45.64	45.44	45.25	43.3
43.4	47.27	47.08	46.89	46.70	46.51	46.31	46.12	45.93	45.73	45.54	45.35	43.4
43.5	47.37	47.18	46.99	46.79	46.60	46.41	46.22	46.03	45.83	45.64	45.45	43.5
43.6	47.46	47.27	47.08	46.89	46.70	46.51	46.32	46.12	45.93	45.74	45.54	43.6
43.7	47.56	47.37	47.18	46.99	46.80	46.61	46.41	46.22	46.03	45.84	45.64	43.7
43.8	47.66	47.47	47.28	47.09	46.90	46.70	46.51	46.32	46.13	45.93	45.74	43.8
43.9	47.76	47.56	47.37	47.18	46.99	46.80	46.61	46.42	46.23	46.03	45.84	43.9
44.0	47.85	47.66	47.47	47.28	47.09	46.90	46.71	46.52	46.32	46.13	45.94	44.0
44.1	47.95	47.76	47.57	47.38	47.19	47.00	46.81	46.61	46.42	46.23	46.04	44.1
44.2	48.05	47.86	47.67	47.48	47.29	47.09	46.90	46.71	46.52	46.33	46.14	44.2
44.3	48.14	47.95	47.76	47.57	47.38	47.19	47.00	46.81	46.62	46.43	46.23	44.3
44.4	48.24	48.05	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.52	46.33	44.4
44.5	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.81	46.62	46.43	44.5
44.6	48.43	48.24	48.05	47.86	47.68	47.48	47.29	47.10	46.91	46.72	46.53	44.6
44.7	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	44.7
44.8	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	44.8
44.9	48.72	48.53	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	46.83	44.9
45.0	48.82	48.63	48.44	48.25	48.07	47.88	47.69	47.50	47.31	47.11	46.92	45.0
45.1	48.92	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	45.1
45.2	49.01	48.83	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.31	47.12	45.2
45.3	49.11	48.92	48.73	48.55	48.36	48.17	47.98	47.79	47.60	47.41	47.22	45.3
45.4	49.21	49.02	48.83	48.64	48.46	48.27	48.08	47.89	47.70	47.51	47.32	45.4
45.5	49.30	49.12	48.93	48.74	48.55	48.36	48.18	47.99	47.80	47.61	47.42	45.5
45.6	49.40	49.21	49.03	48.84	48.65	48.46	48.27	48.08	47.89	47.70	47.51	45.6
45.7	49.50	49.31	49.12	48.94	48.75	48.56	48.37	48.18	47.99	47.80	47.61	45.7
45.8	49.59	49.41	49.22	49.03	48.85	48.66	48.47	48.28	48.09	47.90	47.71	45.8
45.9	49.69	49.51	49.32	49.13	48.94	48.75	48.57	48.38	48.19	48.00	47.81	45.9
46.0	49.79	49.60	49.42	49.23	49.04	48.85	48.66	48.48	48.29	48.10	47.91	46.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
46.0	49.79	49.60	49.42	49.23	49.04	48.85	48.66	48.48	48.29	48.10	47.91	46.0
46.1	49.89	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.39	48.20	48.01	46.1
46.2	49.98	49.80	49.61	49.42	49.24	49.05	48.86	48.67	48.48	48.29	48.11	46.2
46.3	50.08	49.89	49.71	49.52	49.33	49.15	48.96	48.77	48.58	48.39	48.20	46.3
46.4	50.18	49.99	49.80	49.62	49.43	49.24	49.06	48.87	48.68	48.49	48.30	46.4
46.5	50.27	50.09	49.90	49.71	49.53	49.34	49.15	48.97	48.78	48.59	48.40	46.5
46.6	50.37	50.18	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	46.6
46.7	50.47	50.28	50.10	49.91	49.72	49.54	49.35	49.16	48.97	48.79	48.60	46.7
46.8	50.56	50.38	50.19	50.01	49.82	49.63	49.45	49.26	49.07	48.88	48.70	46.8
46.9	50.66	50.48	50.29	50.10	49.92	49.73	49.55	49.36	49.17	48.98	48.80	46.9
47.0	50.76	50.57	50.39	50.20	50.02	49.83	49.64	49.46	49.27	49.08	48.89	47.0
47.1	50.85	50.67	50.48	50.30	50.11	49.93	49.74	49.55	49.37	49.18	48.99	47.1
47.2	50.95	50.77	50.58	50.40	50.21	50.03	49.84	49.65	49.47	49.28	49.09	47.2
47.3	51.05	50.86	50.68	50.49	50.31	50.12	49.94	49.75	49.56	49.38	49.19	47.3
47.4	51.15	50.96	50.78	50.59	50.41	50.22	50.03	49.85	49.66	49.48	49.29	47.4
47.5	51.24	51.06	50.87	50.69	50.50	50.32	50.13	49.95	49.76	49.57	49.39	47.5
47.6	51.34	51.16	50.97	50.79	50.60	50.42	50.23	50.04	49.86	49.67	49.49	47.6
47.7	51.44	51.25	51.07	50.88	50.70	50.51	50.33	50.14	49.96	49.77	49.58	47.7
47.8	51.53	51.35	51.17	50.98	50.80	50.61	50.43	50.24	50.06	49.87	49.68	47.8
47.9	51.63	51.45	51.26	51.08	50.89	50.71	50.52	50.34	50.15	49.97	49.78	47.9
48.0	51.73	51.54	51.36	51.18	50.99	50.81	50.62	50.44	50.25	50.07	49.88	48.0
48.1	51.82	51.64	51.46	51.27	51.09	50.91	50.72	50.54	50.35	50.16	49.98	48.1
48.2	51.92	51.74	51.56	51.37	51.19	51.00	50.82	50.63	50.45	50.26	50.08	48.2
48.3	52.02	51.84	51.65	51.47	51.29	51.10	50.92	50.73	50.55	50.36	50.17	48.3
48.4	52.12	51.93	51.75	51.57	51.38	51.20	51.01	50.83	50.64	50.46	50.27	48.4
48.5	52.21	52.03	51.85	51.66	51.48	51.30	51.11	50.93	50.74	50.56	50.37	48.5
48.6	52.31	52.13	51.94	51.76	51.58	51.39	51.21	51.03	50.84	50.66	50.47	48.6
48.7	52.41	52.22	52.04	51.86	51.68	51.49	51.31	51.12	50.94	50.75	50.57	48.7
48.8	52.50	52.32	52.14	51.96	51.77	51.59	51.41	51.22	51.04	50.85	50.67	48.8
48.9	52.60	52.42	52.24	52.05	51.87	51.69	51.50	51.32	51.14	50.95	50.77	48.9
49.0	52.70	52.52	52.33	52.15	51.97	51.79	51.60	51.42	51.23	51.05	50.87	49.0
49.1	52.80	52.61	52.43	52.25	52.07	51.88	51.70	51.52	51.33	51.15	50.96	49.1
49.2	52.89	52.71	52.53	52.35	52.16	51.98	51.80	51.61	51.43	51.25	51.06	49.2
49.3	52.99	52.81	52.63	52.44	52.26	52.08	51.90	51.71	51.53	51.35	51.16	49.3
49.4	53.09	52.91	52.72	52.54	52.36	52.18	51.99	51.81	51.63	51.44	51.26	49.4
49.5	53.18	53.00	52.82	52.64	52.46	52.28	52.09	51.91	51.73	51.54	51.36	49.5
49.6	53.28	53.10	52.92	52.74	52.56	52.37	52.19	52.01	51.82	51.64	51.46	49.6
49.7	53.38	53.20	53.02	52.84	52.65	52.47	52.29	52.11	51.92	51.74	51.56	49.7
49.8	53.48	53.29	53.11	52.93	52.75	52.57	52.39	52.20	52.02	51.84	51.65	49.8
49.9	53.57	53.39	53.21	53.03	52.85	52.67	52.48	52.30	52.12	51.94	51.75	49.9
50.0	53.67	53.49	53.31	53.13	52.95	52.76	52.58	52.40	52.22	52.03	51.85	50.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
50.0	53.67	53.49	53.31	53.13	52.95	52.76	52.58	52.40	52.22	52.03	51.85	50.0
50.1	53.77	53.59	53.41	53.23	53.04	52.86	52.68	52.50	52.32	52.13	51.95	50.1
50.2	53.86	53.68	53.50	53.32	53.14	52.96	52.78	52.60	52.41	52.23	52.05	50.2
50.3	53.96	53.78	53.60	53.42	53.24	53.06	52.88	52.69	52.51	52.33	52.15	50.3
50.4	54.06	53.88	53.70	53.52	53.34	53.16	52.97	52.79	52.61	52.43	52.25	50.4
50.5	54.16	53.98	53.80	53.62	53.44	53.25	53.07	52.89	52.71	52.53	52.34	50.5
50.6	54.25	54.07	53.89	53.71	53.53	53.35	53.17	52.99	52.81	52.63	52.44	50.6
50.7	54.35	54.17	53.99	53.81	53.63	53.45	53.27	53.09	52.91	52.72	52.54	50.7
50.8	54.45	54.27	54.09	53.91	53.73	53.55	53.37	53.19	53.00	52.82	52.64	50.8
50.9	54.55	54.37	54.19	54.01	53.83	53.65	53.47	53.28	53.10	52.92	52.74	50.9
51.0	54.64	54.46	54.28	54.10	53.92	53.74	53.56	53.38	53.20	53.02	52.84	51.0
51.1	54.74	54.56	54.38	54.20	54.02	53.84	53.66	53.48	53.30	53.12	52.94	51.1
51.2	54.84	54.66	54.48	54.30	54.12	53.94	53.76	53.58	53.40	53.22	53.03	51.2
51.3	54.93	54.76	54.58	54.40	54.22	54.04	53.86	53.68	53.50	53.32	53.13	51.3
51.4	55.03	54.85	54.67	54.50	54.32	54.14	53.96	53.78	53.59	53.41	53.23	51.4
51.5	55.13	54.95	54.77	54.59	54.41	54.23	54.05	53.87	53.69	53.51	53.33	51.5
51.6	55.23	55.05	54.87	54.69	54.51	54.33	54.15	53.97	53.79	53.61	53.43	51.6
51.7	55.32	55.15	54.97	54.79	54.61	54.43	54.25	54.07	53.89	53.71	53.53	51.7
51.8	55.42	55.24	55.06	54.89	54.71	54.53	54.35	54.17	53.99	53.81	53.63	51.8
51.9	55.52	55.34	55.16	54.98	54.81	54.63	54.45	54.27	54.09	53.91	53.73	51.9
52.0	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.37	54.19	54.01	53.82	52.0
52.1	55.71	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.28	54.10	53.92	52.1
52.2	55.81	55.63	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.20	54.02	52.2
52.3	55.91	55.73	55.55	55.38	55.20	55.02	54.84	54.66	54.48	54.30	54.12	52.3
52.4	56.01	55.83	55.65	55.47	55.29	55.12	54.94	54.76	54.58	54.40	54.22	52.4
52.5	56.10	55.93	55.75	55.57	55.39	55.21	55.04	54.86	54.68	54.50	54.32	52.5
52.6	56.20	56.02	55.85	55.67	55.49	55.31	55.13	54.96	54.78	54.60	54.42	52.6
52.7	56.30	56.12	55.94	55.77	55.59	55.41	55.23	55.05	54.87	54.70	54.52	52.7
52.8	56.39	56.22	56.04	55.86	55.69	55.51	55.33	55.15	54.97	54.79	54.61	52.8
52.9	56.49	56.32	56.14	55.96	55.78	55.61	55.43	55.25	55.07	54.89	54.71	52.9
53.0	56.59	56.41	56.24	56.06	55.88	55.70	55.53	55.35	55.17	54.99	54.81	53.0
53.1	56.69	56.51	56.33	56.16	55.98	55.80	55.63	55.45	55.27	55.09	54.91	53.1
53.2	56.78	56.61	56.43	56.26	56.08	55.90	55.72	55.55	55.37	55.19	55.01	53.2
53.3	56.88	56.71	56.53	56.35	56.18	56.00	55.82	55.64	55.47	55.29	55.11	53.3
53.4	56.98	56.80	56.63	56.45	56.27	56.10	55.92	55.74	55.56	55.39	55.21	53.4
53.5	57.08	56.90	56.73	56.55	56.37	56.20	56.02	55.84	55.66	55.48	55.31	53.5
53.6	57.17	57.00	56.82	56.65	56.47	56.29	56.12	55.94	55.76	55.58	55.40	53.6
53.7	57.27	57.10	56.92	56.74	56.57	56.39	56.21	56.04	55.86	55.68	55.50	53.7
53.8	57.37	57.19	57.02	56.84	56.67	56.49	56.31	56.14	55.96	55.78	55.60	53.8
53.9	57.47	57.29	57.12	56.94	56.76	56.59	56.41	56.23	56.06	55.88	55.70	53.9
54.0	57.56	57.39	57.21	57.04	56.86	56.69	56.51	56.33	56.15	55.98	55.80	54.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
54.0	57.56	57.39	57.21	57.04	56.86	56.69	56.51	56.33	56.15	55.98	55.80	54.0
54.1	57.66	57.49	57.31	57.14	56.96	56.78	56.61	56.43	56.25	56.08	55.90	54.1
54.2	57.76	57.58	57.41	57.23	57.06	56.88	56.71	56.53	56.35	56.17	56.00	54.2
54.3	57.86	57.68	57.51	57.33	57.16	56.98	56.80	56.63	56.45	56.27	56.10	54.3
54.4	57.95	57.78	57.61	57.43	57.25	57.08	56.90	56.73	56.55	56.37	56.19	54.4
54.5	58.05	57.88	57.70	57.53	57.35	57.18	57.00	56.82	56.65	56.47	56.29	54.5
54.6	58.15	57.98	57.80	57.63	57.45	57.27	57.10	56.92	56.75	56.57	56.39	54.6
54.7	58.25	58.07	57.90	57.72	57.55	57.37	57.20	57.02	56.84	56.67	56.49	54.7
54.8	58.34	58.17	58.00	57.82	57.65	57.47	57.30	57.12	56.94	56.77	56.59	54.8
54.9	58.44	58.27	58.09	57.92	57.74	57.57	57.39	57.22	57.04	56.87	56.69	54.9
55.0	58.54	58.37	58.19	58.02	57.84	57.67	57.49	57.32	57.14	56.96	56.79	55.0
55.1	58.64	58.46	58.29	58.12	57.94	57.77	57.59	57.41	57.24	57.06	56.89	55.1
55.2	58.73	58.56	58.39	58.21	58.04	57.86	57.69	57.51	57.34	57.16	56.98	55.2
55.3	58.83	58.66	58.49	58.31	58.14	57.96	57.79	57.61	57.44	57.26	57.08	55.3
55.4	58.93	58.76	58.58	58.41	58.23	58.06	57.89	57.71	57.53	57.36	57.18	55.4
55.5	59.03	58.85	58.68	58.51	58.33	58.16	57.98	57.81	57.63	57.46	57.28	55.5
55.6	59.13	58.95	58.78	58.61	58.43	58.26	58.08	57.91	57.73	57.56	57.38	55.6
55.7	59.22	59.05	58.88	58.70	58.53	58.35	58.18	58.01	57.83	57.65	57.48	55.7
55.8	59.32	59.15	58.97	58.80	58.63	58.45	58.28	58.10	57.93	57.75	57.58	55.8
55.9	59.42	59.25	59.07	58.90	58.73	58.55	58.38	58.20	58.03	57.85	57.68	55.9
56.0	59.52	59.34	59.17	59.00	58.82	58.65	58.48	58.30	58.13	57.95	57.77	56.0
56.1	59.61	59.44	59.27	59.10	58.92	58.75	58.57	58.40	58.22	58.05	57.87	56.1
56.2	59.71	59.54	59.37	59.19	59.02	58.85	58.67	58.50	58.32	58.15	57.97	56.2
56.3	59.81	59.64	59.46	59.29	59.12	58.94	58.77	58.60	58.42	58.25	58.07	56.3
56.4	59.91	59.73	59.56	59.39	59.22	59.04	58.87	58.69	58.52	58.35	58.17	56.4
56.5	60.00	59.83	59.66	59.49	59.31	59.14	58.97	58.79	58.62	58.44	58.27	56.5
56.6	60.10	59.93	59.76	59.59	59.41	59.24	59.07	58.89	58.72	58.54	58.37	56.6
56.7	60.20	60.03	59.86	59.68	59.51	59.34	59.16	58.99	58.82	58.64	58.47	56.7
56.8	60.30	60.13	59.95	59.78	59.61	59.44	59.26	59.09	58.91	58.74	58.57	56.8
56.9	60.39	60.22	60.05	59.88	59.71	59.53	59.36	59.19	59.01	58.84	58.66	56.9
57.0	60.49	60.32	60.15	59.98	59.80	59.63	59.46	59.29	59.11	58.94	58.76	57.0
57.1	60.59	60.42	60.25	60.08	59.90	59.73	59.56	59.38	59.21	59.04	58.86	57.1
57.2	60.69	60.52	60.34	60.17	60.00	59.83	59.66	59.48	59.31	59.14	58.96	57.2
57.3	60.79	60.61	60.44	60.27	60.10	59.93	59.75	59.58	59.41	59.23	59.06	57.3
57.4	60.88	60.71	60.54	60.37	60.20	60.03	59.85	59.68	59.51	59.33	59.16	57.4
57.5	60.98	60.81	60.64	60.47	60.30	60.12	59.95	59.78	59.60	59.43	59.26	57.5
57.6	61.08	60.91	60.74	60.57	60.39	60.22	60.05	59.88	59.70	59.53	59.36	57.6
57.7	61.18	61.01	60.83	60.66	60.49	60.32	60.15	59.97	59.80	59.63	59.46	57.7
57.8	61.27	61.10	60.93	60.76	60.59	60.42	60.25	60.07	59.90	59.73	59.55	57.8
57.9	61.37	61.20	61.03	60.86	60.69	60.52	60.34	60.17	60.00	59.83	59.65	57.9
58.0	61.47	61.30	61.13	60.96	60.79	60.61	60.44	60.27	60.10	59.92	59.75	58.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
58.0	61.47	61.30	61.13	60.96	60.79	60.61	60.44	60.27	60.10	59.92	59.75	58.0
58.1	61.57	61.40	61.23	61.06	60.88	60.71	60.54	60.37	60.20	60.02	59.85	58.1
58.2	61.66	61.49	61.32	61.15	60.98	60.81	60.64	60.47	60.30	60.12	59.95	58.2
58.3	61.76	61.59	61.42	61.25	61.08	60.91	60.74	60.57	60.39	60.22	60.05	58.3
58.4	61.86	61.69	61.52	61.35	61.18	61.01	60.84	60.66	60.49	60.32	60.15	58.4
58.5	61.96	61.79	61.62	61.45	61.28	61.11	60.93	60.76	60.59	60.42	60.25	58.5
58.6	62.06	61.89	61.72	61.55	61.38	61.20	61.03	60.86	60.69	60.52	60.34	58.6
58.7	62.15	61.98	61.81	61.64	61.47	61.30	61.13	60.96	60.79	60.62	60.44	58.7
58.8	62.25	62.08	61.91	61.74	61.57	61.40	61.23	61.06	60.89	60.71	60.54	58.8
58.9	62.35	62.18	62.01	61.84	61.67	61.50	61.33	61.16	60.99	60.81	60.64	58.9
59.0	62.45	62.28	62.11	61.94	61.77	61.60	61.43	61.26	61.08	60.91	60.74	59.0
59.1	62.54	62.38	62.21	62.04	61.87	61.70	61.53	61.35	61.18	61.01	60.84	59.1
59.2	62.64	62.47	62.30	62.13	61.96	61.79	61.62	61.45	61.28	61.11	60.94	59.2
59.3	62.74	62.57	62.40	62.23	62.06	61.89	61.72	61.55	61.38	61.21	61.04	59.3
59.4	62.84	62.67	62.50	62.33	62.16	61.99	61.82	61.65	61.48	61.31	61.14	59.4
59.5	62.93	62.77	62.60	62.43	62.26	62.09	61.92	61.75	61.58	61.41	61.23	59.5
59.6	63.03	62.86	62.70	62.53	62.36	62.19	62.02	61.85	61.68	61.50	61.33	59.6
59.7	63.13	62.96	62.79	62.62	62.46	62.29	62.12	61.95	61.77	61.60	61.43	59.7
59.8	63.23	63.06	62.89	62.72	62.55	62.38	62.21	62.04	61.87	61.70	61.53	59.8
59.9	63.33	63.16	62.99	62.82	62.65	62.48	62.31	62.14	61.97	61.80	61.63	59.9
60.0	63.42	63.26	63.09	62.92	62.75	62.58	62.41	62.24	62.07	61.90	61.73	60.0
60.1	63.52	63.35	63.19	63.02	62.85	62.68	62.51	62.34	62.17	62.00	61.83	60.1
60.2	63.62	63.45	63.28	63.11	62.95	62.78	62.61	62.44	62.27	62.10	61.93	60.2
60.3	63.72	63.55	63.38	63.21	63.04	62.88	62.71	62.54	62.37	62.20	62.03	60.3
60.4	63.81	63.65	63.48	63.31	63.14	62.97	62.80	62.64	62.47	62.30	62.12	60.4
60.5	63.91	63.74	63.58	63.41	63.24	63.07	62.90	62.73	62.56	62.39	62.22	60.5
60.6	64.01	63.84	63.68	63.51	63.34	63.17	63.00	62.83	62.66	62.49	62.32	60.6
60.7	64.11	63.94	63.77	63.61	63.44	63.27	63.10	62.93	62.76	62.59	62.42	60.7
60.8	64.21	64.04	63.87	63.70	63.54	63.37	63.20	63.03	62.86	62.69	62.52	60.8
60.9	64.30	64.14	63.97	63.80	63.63	63.47	63.30	63.13	62.96	62.79	62.62	60.9
61.0	64.40	64.23	64.07	63.90	63.73	63.56	63.40	63.23	63.06	62.89	62.72	61.0
61.1	64.50	64.33	64.17	64.00	63.83	63.66	63.49	63.32	63.16	62.99	62.82	61.1
61.2	64.60	64.43	64.26	64.10	63.93	63.76	63.59	63.42	63.25	63.09	62.92	61.2
61.3	64.69	64.53	64.36	64.19	64.03	63.86	63.69	63.52	63.35	63.18	63.01	61.3
61.4	64.79	64.63	64.46	64.29	64.12	63.96	63.79	63.62	63.45	63.28	63.11	61.4
61.5	64.89	64.72	64.56	64.39	64.22	64.06	63.89	63.72	63.55	63.38	63.21	61.5
61.6	64.99	64.82	64.65	64.49	64.32	64.15	63.99	63.82	63.65	63.48	63.31	61.6
61.7	65.09	64.92	64.75	64.59	64.42	64.25	64.08	63.92	63.75	63.58	63.41	61.7
61.8	65.18	65.02	64.85	64.68	64.52	64.35	64.18	64.01	63.85	63.68	63.51	61.8
61.9	65.28	65.11	64.95	64.78	64.62	64.45	64.28	64.11	63.94	63.78	63.61	61.9
62.0	65.38	65.21	65.05	64.88	64.71	64.55	64.38	64.21	64.04	63.88	63.71	62.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
62.0	65.38	65.21	65.05	64.88	64.71	64.55	64.38	64.21	64.04	63.88	63.71	62.0
62.1	65.48	65.31	65.14	64.98	64.81	64.65	64.48	64.31	64.14	63.97	63.81	62.1
62.2	65.57	65.41	65.24	65.08	64.91	64.74	64.58	64.41	64.24	64.07	63.90	62.2
62.3	65.67	65.51	65.34	65.17	65.01	64.84	64.67	64.51	64.34	64.17	64.00	62.3
62.4	65.77	65.60	65.44	65.27	65.11	64.94	64.77	64.61	64.44	64.27	64.10	62.4
62.5	65.87	65.70	65.54	65.37	65.20	65.04	64.87	64.70	64.54	64.37	64.20	62.5
62.6	65.96	65.80	65.63	65.47	65.30	65.14	64.97	64.80	64.64	64.47	64.30	62.6
62.7	66.06	65.90	65.73	65.57	65.40	65.23	65.07	64.90	64.73	64.57	64.40	62.7
62.8	66.16	66.00	65.83	65.67	65.50	65.33	65.17	65.00	64.83	64.67	64.50	62.8
62.9	66.26	66.09	65.93	65.76	65.60	65.43	65.27	65.10	64.93	64.76	64.60	62.9
63.0	66.36	66.19	66.03	65.86	65.70	65.53	65.36	65.20	65.03	64.86	64.70	63.0
63.1	66.45	66.29	66.12	65.96	65.79	65.63	65.46	65.30	65.13	64.96	64.79	63.1
63.2	66.55	66.39	66.22	66.06	65.89	65.73	65.56	65.39	65.23	65.06	64.89	63.2
63.3	66.65	66.48	66.32	66.16	65.99	65.82	65.66	65.49	65.33	65.16	64.99	63.3
63.4	66.75	66.58	66.42	66.25	66.09	65.92	65.76	65.59	65.42	65.26	65.09	63.4
63.5	66.84	66.68	66.52	66.35	66.19	66.02	65.86	65.69	65.52	65.36	65.19	63.5
63.6	66.94	66.78	66.61	66.45	66.28	66.12	65.95	65.79	65.62	65.46	65.29	63.6
63.7	67.04	66.88	66.71	66.55	66.38	66.22	66.05	65.89	65.72	65.55	65.39	63.7
63.8	67.14	66.97	66.81	66.65	66.48	66.32	66.15	65.99	65.82	65.65	65.49	63.8
63.9	67.24	67.07	66.91	66.74	66.58	66.41	66.25	66.08	65.92	65.75	65.58	63.9
64.0	67.33	67.17	67.01	66.84	66.68	66.51	66.35	66.18	66.02	65.85	65.68	64.0
64.1	67.43	67.27	67.10	66.94	66.78	66.61	66.45	66.28	66.11	65.95	65.78	64.1
64.2	67.53	67.37	67.20	67.04	66.87	66.71	66.54	66.38	66.21	66.05	65.88	64.2
64.3	67.63	67.46	67.30	67.14	66.97	66.81	66.64	66.48	66.31	66.15	65.98	64.3
64.4	67.72	67.56	67.40	67.23	67.07	66.91	66.74	66.58	66.41	66.25	66.08	64.4
64.5	67.82	67.66	67.50	67.33	67.17	67.00	66.84	66.67	66.51	66.34	66.18	64.5
64.6	67.92	67.76	67.59	67.43	67.27	67.10	66.94	66.77	66.61	66.44	66.28	64.6
64.7	68.02	67.85	67.69	67.53	67.36	67.20	67.04	66.87	66.71	66.54	66.38	64.7
64.8	68.11	67.95	67.79	67.63	67.46	67.30	67.13	66.97	66.81	66.64	66.47	64.8
64.9	68.21	68.05	67.89	67.72	67.56	67.40	67.23	67.07	66.90	66.74	66.57	64.9
65.0	68.31	68.15	67.99	67.82	67.66	67.50	67.33	67.17	67.00	66.84	66.67	65.0
65.1	68.41	68.25	68.08	67.92	67.76	67.59	67.43	67.27	67.10	66.94	66.77	65.1
65.2	68.51	68.34	68.18	68.02	67.86	67.69	67.53	67.36	67.20	67.04	66.87	65.2
65.3	68.60	68.44	68.28	68.12	67.95	67.79	67.63	67.46	67.30	67.13	66.97	65.3
65.4	68.70	68.54	68.38	68.21	68.05	67.89	67.72	67.56	67.40	67.23	67.07	65.4
65.5	68.80	68.64	68.47	68.31	68.15	67.99	67.82	67.66	67.50	67.33	67.17	65.5
65.6	68.90	68.73	68.57	68.41	68.25	68.08	67.92	67.76	67.59	67.43	67.27	65.6
65.7	68.99	68.83	68.67	68.51	68.35	68.18	68.02	67.86	67.69	67.53	67.36	65.7
65.8	69.09	68.93	68.77	68.61	68.44	68.28	68.12	67.96	67.79	67.63	67.46	65.8
65.9	69.19	69.03	68.87	68.70	68.54	68.38	68.22	68.05	67.89	67.73	67.56	65.9
66.0	69.29	69.13	68.96	68.80	68.64	68.48	68.32	68.15	67.99	67.82	67.66	66.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
66.0	69.29	69.13	68.96	68.80	68.64	68.48	68.32	68.15	67.99	67.82	67.66	66.0
66.1	69.38	69.22	69.06	68.90	68.74	68.58	68.41	68.25	68.09	67.92	67.76	66.1
66.2	69.48	69.32	69.16	69.00	68.84	68.67	68.51	68.35	68.19	68.02	67.86	66.2
66.3	69.58	69.42	69.26	69.10	68.93	68.77	68.61	68.45	68.28	68.12	67.96	66.3
66.4	69.68	69.52	69.36	69.19	69.03	68.87	68.71	68.55	68.38	68.22	68.06	66.4
66.5	69.78	69.61	69.45	69.29	69.13	68.97	68.81	68.64	68.48	68.32	68.15	66.5
66.6	69.87	69.71	69.55	69.39	69.23	69.07	68.91	68.74	68.58	68.42	68.25	66.6
66.7	69.97	69.81	69.65	69.49	69.33	69.17	69.00	68.84	68.68	68.52	68.35	66.7
66.8	70.07	69.91	69.75	69.59	69.43	69.26	69.10	68.94	68.78	68.61	68.45	66.8
66.9	70.17	70.01	69.85	69.68	69.52	69.36	69.20	69.04	68.88	68.71	68.55	66.9
67.0	70.26	70.10	69.94	69.78	69.62	69.46	69.30	69.14	68.97	68.81	68.65	67.0
67.1	70.36	70.20	70.04	69.88	69.72	69.56	69.40	69.24	69.07	68.91	68.75	67.1
67.2	70.46	70.30	70.14	69.98	69.82	69.66	69.70	69.33	69.17	69.01	68.85	67.2
67.3	70.56	70.40	70.24	70.08	69.92	69.76	69.59	69.43	69.27	69.11	68.95	67.3
67.4	70.65	70.49	70.33	70.17	70.01	69.85	69.69	69.53	69.37	69.21	69.04	67.4
67.5	70.75	70.59	70.43	70.27	70.11	69.95	69.79	69.63	69.47	69.31	69.14	67.5
67.6	70.85	70.69	70.53	70.37	70.21	70.05	69.89	69.73	69.57	69.40	69.24	67.6
67.7	70.95	70.79	70.63	70.47	70.31	70.15	69.99	69.83	69.66	69.50	69.34	67.7
67.8	71.04	70.89	70.73	70.57	70.41	70.25	70.09	69.92	69.76	69.60	69.44	67.8
67.9	71.14	70.98	70.82	70.66	70.50	70.34	70.18	70.02	69.86	69.70	69.54	67.9
68.0	71.24	71.08	70.92	70.76	70.60	70.44	70.28	70.12	69.96	69.80	69.64	68.0
68.1	71.34	71.18	71.02	70.86	70.70	70.54	70.38	70.22	70.06	69.90	69.74	68.1
68.2	71.43	71.28	71.12	70.96	70.80	70.64	70.48	70.32	70.16	70.00	69.83	68.2
68.3	71.53	71.37	71.22	71.06	70.90	70.74	70.58	70.42	70.26	70.09	69.93	68.3
68.4	71.63	71.47	71.31	71.15	70.99	70.84	70.68	70.52	70.35	70.19	70.03	68.4
68.5	71.73	71.57	71.41	71.25	71.09	70.93	70.77	70.61	70.45	70.29	70.13	68.5
68.6	71.83	71.67	71.51	71.35	71.19	71.03	70.87	70.71	70.55	70.39	70.23	68.6
68.7	71.92	71.76	71.61	71.45	71.29	71.13	70.97	70.81	70.65	70.49	70.33	68.7
68.8	72.02	71.86	71.70	71.55	71.39	71.23	71.07	70.91	70.75	70.59	70.43	68.8
68.9	72.12	71.96	71.80	71.64	71.49	71.33	71.17	71.01	70.85	70.69	70.53	68.9
69.0	72.22	72.06	71.90	71.74	71.58	71.42	71.27	71.11	70.95	70.79	70.62	69.0
69.1	72.31	72.16	72.00	71.84	71.68	71.52	71.36	71.20	71.04	70.88	70.72	69.1
69.2	72.41	72.25	72.10	71.94	71.78	71.62	71.46	71.30	71.14	70.98	70.82	69.2
69.3	72.51	72.35	72.19	72.04	71.88	71.72	71.56	71.40	71.24	71.08	70.92	69.3
69.4	72.61	72.45	72.29	72.13	71.98	71.82	71.66	71.50	71.34	71.18	71.02	69.4
69.5	72.70	72.55	72.39	72.23	72.07	71.92	71.76	71.60	71.44	71.28	71.12	69.5
69.6	72.80	72.64	72.49	72.33	72.17	72.01	71.85	71.70	71.54	71.38	71.22	69.6
69.7	72.90	72.74	72.58	72.43	72.27	72.11	71.95	71.79	71.64	71.48	71.32	69.7
69.8	73.00	72.84	72.68	72.53	72.37	72.21	72.05	71.89	71.73	71.57	71.42	69.8
69.9	73.09	72.94	72.78	72.62	72.47	72.31	72.15	71.99	71.83	71.67	71.51	69.9
70.0	73.19	73.03	72.88	72.72	72.56	72.41	72.25	72.09	71.93	71.77	71.61	70.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
70.0	73.19	73.03	72.88	72.72	72.56	72.41	72.25	72.09	71.93	71.77	71.61	70.0
70.1	73.29	73.13	72.98	72.82	72.66	72.50	72.35	72.19	72.03	71.87	71.71	70.1
70.2	73.39	73.23	73.07	72.92	72.76	72.60	72.44	72.29	72.13	71.97	71.81	70.2
70.3	73.48	73.33	73.17	73.01	72.86	72.70	72.54	72.38	72.23	72.07	71.91	70.3
70.4	73.58	73.42	73.27	73.11	72.96	72.80	72.64	72.48	72.32	72.17	72.01	70.4
70.5	73.68	73.52	73.37	73.21	73.05	72.90	72.74	72.58	72.42	72.26	72.11	70.5
70.6	73.78	73.62	73.46	73.31	73.15	72.99	72.84	72.68	72.52	72.36	72.20	70.6
70.7	73.87	73.72	73.56	73.41	73.25	73.09	72.94	72.78	72.62	72.46	72.30	70.7
70.8	73.97	73.82	73.66	73.50	73.35	73.19	73.03	72.88	72.72	72.56	72.40	70.8
70.9	74.07	73.91	73.76	73.60	73.45	73.29	73.13	72.97	72.82	72.66	72.50	70.9
71.0	74.17	74.01	73.86	73.70	73.54	73.39	73.23	73.07	72.92	72.76	72.60	71.0
71.1	74.26	74.11	73.95	73.80	73.64	73.49	73.33	73.17	73.01	72.86	72.70	71.1
71.2	74.36	74.21	74.05	73.90	73.74	73.58	73.43	73.27	73.11	72.96	72.80	71.2
71.3	74.46	74.30	74.15	73.99	73.84	73.68	73.52	73.37	73.21	73.05	72.90	71.3
71.4	74.56	74.40	74.25	74.09	73.94	73.78	73.62	73.47	73.31	73.15	72.99	71.4
71.5	74.65	74.50	74.34	74.19	74.03	73.88	73.72	73.56	73.41	73.25	73.09	71.5
71.6	74.75	74.60	74.44	74.29	74.13	73.98	73.82	73.66	73.51	73.35	73.19	71.6
71.7	74.85	74.69	74.54	74.38	74.23	74.07	73.92	73.76	73.61	73.45	73.29	71.7
71.8	74.95	74.79	74.64	74.48	74.33	74.17	74.02	73.86	73.70	73.55	73.39	71.8
71.9	75.04	74.89	74.73	74.58	74.43	74.27	74.11	73.96	73.80	73.65	73.49	71.9
72.0	75.14	74.99	74.83	74.68	74.52	74.37	74.21	74.06	73.90	73.74	73.59	72.0
72.1	75.24	75.08	74.93	74.78	74.62	74.47	74.31	74.16	74.00	73.84	73.69	72.1
72.2	75.34	75.18	75.03	74.87	74.72	74.56	74.41	74.25	74.10	73.94	73.78	72.2
72.3	75.43	75.28	75.13	74.97	74.82	74.66	74.51	74.35	74.20	74.04	73.88	72.3
72.4	75.53	75.38	75.22	75.07	74.92	74.76	74.61	74.45	74.29	74.14	73.98	72.4
72.5	75.63	75.47	75.32	75.17	75.01	74.86	74.70	74.55	74.39	74.24	74.08	72.5
72.6	75.73	75.57	75.42	75.27	75.11	74.96	74.80	74.65	74.49	74.34	74.18	72.6
72.7	75.82	75.67	75.52	75.36	75.21	75.05	74.90	74.75	74.59	74.43	74.28	72.7
72.8	75.92	75.77	75.61	75.46	75.31	75.15	75.00	74.84	74.69	74.53	74.38	72.8
72.9	76.02	75.87	75.71	75.56	75.40	75.25	75.10	74.94	74.79	74.63	74.48	72.9
73.0	76.12	75.96	75.81	75.66	75.50	75.35	75.19	75.04	74.89	74.73	74.57	73.0
73.1	76.21	76.06	75.91	75.75	75.60	75.45	75.29	75.14	74.98	74.83	74.67	73.1
73.2	76.31	76.16	76.01	75.85	75.70	75.55	75.39	75.24	75.08	74.93	74.77	73.2
73.3	76.41	76.26	76.10	75.95	75.80	75.64	75.49	75.34	75.18	75.03	74.87	73.3
73.4	76.50	76.35	76.20	76.05	75.89	75.74	75.59	75.43	75.28	75.12	74.97	73.4
73.5	76.60	76.45	76.30	76.15	75.99	75.84	75.69	75.53	75.38	75.22	75.07	73.5
73.6	76.70	76.55	76.40	76.24	76.09	75.94	75.78	75.63	75.48	75.32	75.17	73.6
73.7	76.80	76.65	76.49	76.34	76.19	76.04	75.88	75.73	75.57	75.42	75.27	73.7
73.8	76.89	76.74	76.59	76.44	76.29	76.13	75.98	75.83	75.67	75.52	75.36	73.8
73.9	76.99	76.84	76.69	76.54	76.38	76.23	76.08	75.93	75.77	75.62	75.46	73.9
74.0	77.09	76.94	76.79	76.63	76.48	76.33	76.18	76.02	75.87	75.72	75.56	74.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
74.0	77.09	76.94	76.79	76.63	76.48	76.33	76.18	76.02	75.87	75.72	75.56	74.0
74.1	77.19	77.04	76.88	76.73	76.58	76.43	76.27	76.12	75.97	75.81	75.66	74.1
74.2	77.28	77.13	76.98	76.83	76.68	76.53	76.37	76.22	76.07	75.91	75.76	74.2
74.3	77.38	77.23	77.08	76.93	76.78	76.62	76.47	76.32	76.17	76.01	75.86	74.3
74.4	77.48	77.33	77.18	77.03	76.87	76.72	76.57	76.42	76.26	76.11	75.96	74.4
74.5	77.58	77.43	77.27	77.12	76.97	76.82	76.67	76.51	76.36	76.21	76.05	74.5
74.6	77.67	77.52	77.37	77.22	77.07	76.92	76.77	76.61	76.46	76.31	76.15	74.6
74.7	77.77	77.62	77.47	77.32	77.17	77.02	76.86	76.71	76.56	76.41	76.25	74.7
74.8	77.87	77.72	77.57	77.42	77.27	77.11	76.96	76.81	76.66	76.50	76.35	74.8
74.9	77.97	77.82	77.67	77.51	77.36	77.21	77.06	76.91	76.76	76.60	76.45	74.9
75.0	78.06	77.91	77.76	77.61	77.46	77.31	77.16	77.01	76.85	76.70	76.55	75.0
75.1	78.16	78.01	77.86	77.71	77.56	77.41	77.26	77.10	76.95	76.80	76.65	75.1
75.2	78.26	78.11	77.96	77.81	77.66	77.51	77.35	77.20	77.05	76.90	76.75	75.2
75.3	78.35	78.21	78.06	77.91	77.75	77.60	77.45	77.30	77.15	77.00	76.84	75.3
75.4	78.45	78.30	78.15	78.00	77.85	77.70	77.55	77.40	77.25	77.10	76.94	75.4
75.5	78.55	78.40	78.25	78.10	77.95	77.80	77.65	77.50	77.35	77.19	77.04	75.5
75.6	78.65	78.50	78.35	78.20	78.05	77.90	77.75	77.60	77.44	77.29	77.14	75.6
75.7	78.74	78.60	78.45	78.30	78.15	78.00	77.85	77.69	77.54	77.39	77.24	75.7
75.8	78.84	78.69	78.54	78.39	78.24	78.09	77.94	77.79	77.64	77.49	77.34	75.8
75.9	78.94	78.79	78.64	78.49	78.34	78.19	78.04	77.89	77.74	77.59	77.44	75.9
76.0	79.04	78.89	78.74	78.59	78.44	78.29	78.14	77.99	77.84	77.69	77.53	76.0
76.1	79.13	78.98	78.84	78.69	78.54	78.39	78.24	78.09	77.94	77.79	77.63	76.1
76.2	79.23	79.08	78.93	78.78	78.64	78.49	78.34	78.19	78.03	77.88	77.73	76.2
76.3	79.33	79.18	79.03	78.88	78.73	78.58	78.43	78.28	78.13	77.98	77.83	76.3
76.4	79.42	79.28	79.13	78.98	78.83	78.68	78.53	78.38	78.23	78.08	77.93	76.4
76.5	79.52	79.37	79.23	79.08	78.93	78.78	78.63	78.48	78.33	78.18	78.03	76.5
76.6	79.62	79.47	79.32	79.18	79.03	78.88	78.73	78.58	78.43	78.28	78.13	76.6
76.7	79.72	79.57	79.42	79.27	79.12	78.98	78.83	78.68	78.53	78.38	78.23	76.7
76.8	79.81	79.67	79.52	79.37	79.22	79.07	78.92	78.77	78.62	78.47	78.32	76.8
76.9	79.91	79.76	79.62	79.47	79.32	79.17	79.02	78.87	78.72	78.57	78.42	76.9
77.0	80.01	79.86	79.71	79.57	79.42	79.27	79.12	78.97	78.82	78.67	78.52	77.0
77.1	80.11	79.96	79.81	79.66	79.52	79.37	79.22	79.07	78.92	78.77	78.62	77.1
77.2	80.20	80.06	79.91	79.76	79.61	79.46	79.32	79.17	79.02	78.87	78.72	77.2
77.3	80.30	80.15	80.01	79.86	79.71	79.56	79.41	79.27	79.12	78.97	78.82	77.3
77.4	80.40	80.25	80.10	79.96	79.81	79.66	79.51	79.36	79.21	79.07	78.92	77.4
77.5	80.49	80.35	80.20	80.05	79.91	79.76	79.61	79.46	79.31	79.16	79.01	77.5
77.6	80.59	80.44	80.30	80.15	80.00	79.86	79.71	79.56	79.41	79.26	79.11	77.6
77.7	80.69	80.54	80.40	80.25	80.10	79.95	79.81	79.66	79.51	79.36	79.21	77.7
77.8	80.79	80.64	80.49	80.35	80.20	80.05	79.90	79.76	79.61	79.46	79.31	77.8
77.9	80.88	80.74	80.59	80.44	80.30	80.15	80.00	79.85	79.71	79.56	79.41	77.9
78.0	80.98	80.83	80.69	80.54	80.39	80.25	80.10	79.95	79.80	79.66	79.51	78.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
78.0	80.98	80.83	80.69	80.54	80.39	80.25	80.10	79.95	79.80	79.66	79.51	78.0
78.1	81.08	80.93	80.79	80.64	80.49	80.35	80.20	80.05	79.90	79.75	79.61	78.1
78.2	81.17	81.03	80.88	80.74	80.59	80.44	80.30	80.15	80.00	79.85	79.70	78.2
78.3	81.27	81.13	80.98	80.83	80.69	80.54	80.39	80.25	80.10	79.95	79.80	78.3
78.4	81.37	81.22	81.08	80.93	80.79	80.64	80.49	80.35	80.20	80.05	79.90	78.4
78.5	81.46	81.32	81.17	81.03	80.88	80.74	80.59	80.44	80.30	80.15	80.00	78.5
78.6	81.56	81.42	81.27	81.13	80.98	80.83	80.69	80.54	80.39	80.25	80.10	78.6
78.7	81.66	81.51	81.37	81.22	81.08	80.93	80.79	80.64	80.49	80.34	80.20	78.7
78.8	81.76	81.61	81.47	81.32	81.18	81.03	80.88	80.74	80.59	80.44	80.30	78.8
78.9	81.85	81.71	81.56	81.42	81.27	81.13	80.98	80.84	80.69	80.54	80.39	78.9
79.0	81.95	81.81	81.66	81.52	81.37	81.23	81.08	80.93	80.79	80.64	80.49	79.0
79.1	82.05	81.90	81.76	81.61	81.47	81.32	81.18	81.03	80.89	80.74	80.59	79.1
79.2	82.14	82.00	81.86	81.71	81.57	81.42	81.28	81.13	80.98	80.84	80.69	79.2
79.3	82.24	82.10	81.95	81.81	81.66	81.52	81.37	81.23	81.08	80.94	80.79	79.3
79.4	82.34	82.19	82.05	81.91	81.76	81.62	81.47	81.33	81.18	81.03	80.89	79.4
79.5	82.43	82.29	82.15	82.00	81.86	81.71	81.57	81.42	81.28	81.13	80.99	79.5
79.6	82.53	82.39	82.24	82.10	81.96	81.81	81.67	81.52	81.38	81.23	81.08	79.6
79.7	82.63	82.49	82.34	82.20	82.05	81.91	81.76	81.62	81.47	81.33	81.18	79.7
79.8	82.72	82.58	82.44	82.30	82.15	82.01	81.86	81.72	81.57	81.43	81.28	79.8
79.9	82.82	82.68	82.54	82.39	82.25	82.11	81.96	81.82	81.67	81.53	81.38	79.9
80.0	82.92	82.78	82.63	82.49	82.35	82.20	82.06	81.91	81.77	81.62	81.48	80.0
80.1	83.02	82.87	82.73	82.59	82.44	82.30	82.16	82.01	81.87	81.72	81.58	80.1
80.2	83.11	82.97	82.83	82.68	82.54	82.40	82.25	82.11	81.96	81.82	81.67	80.2
80.3	83.21	83.07	82.92	82.78	82.64	82.50	82.35	82.21	82.06	81.92	81.77	80.3
80.4	83.31	83.16	83.02	82.88	82.74	82.59	82.45	82.31	82.16	82.02	81.87	80.4
80.5	83.40	83.26	83.12	82.98	82.83	82.69	82.55	82.40	82.26	82.11	81.97	80.5
80.6	83.50	83.36	83.22	83.07	82.93	82.79	82.65	82.50	82.36	82.21	82.07	80.6
80.7	83.60	83.45	83.31	83.17	83.03	82.89	82.74	82.60	82.46	82.31	82.17	80.7
80.8	83.69	83.55	83.41	83.27	83.13	82.98	82.84	82.70	82.55	82.41	82.26	80.8
80.9	83.79	83.65	83.51	83.37	83.22	83.08	82.94	82.80	82.65	82.51	82.36	80.9
81.0	83.89	83.74	83.60	83.46	83.32	83.18	83.04	82.89	82.75	82.61	82.46	81.0
81.1	83.98	83.84	83.70	83.56	83.42	83.28	83.13	82.99	82.85	82.70	82.56	81.1
81.2	84.08	83.94	83.80	83.66	83.52	83.37	83.23	83.09	82.95	82.80	82.66	81.2
81.3	84.18	84.04	83.90	83.75	83.61	83.47	83.33	83.19	83.04	82.90	82.76	81.3
81.4	84.27	84.13	83.99	83.85	83.71	83.57	83.43	83.28	83.14	83.00	82.86	81.4
81.5	84.37	84.23	84.09	83.95	83.81	83.67	83.52	83.38	83.24	83.10	82.95	81.5
81.6	84.47	84.33	84.19	84.05	83.90	83.76	83.62	83.48	83.34	83.19	83.05	81.6
81.7	84.56	84.42	84.28	84.14	84.00	83.86	83.72	83.58	83.44	83.29	83.15	81.7
81.8	84.66	84.52	84.38	84.24	84.10	83.96	83.82	83.68	83.53	83.39	83.25	81.8
81.9	84.75	84.62	84.48	84.34	84.20	84.06	83.91	83.77	83.63	83.49	83.35	81.9
82.0	84.85	84.71	84.57	84.43	84.29	84.15	84.01	83.87	83.73	83.59	83.44	82.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
82.0	84.85	84.71	84.57	84.43	84.29	84.15	84.01	83.87	83.73	83.59	83.44	82.0
82.1	84.95	84.81	84.67	84.53	84.39	84.25	84.11	83.97	83.83	83.69	83.54	82.1
82.2	85.04	84.91	84.77	84.63	84.49	84.35	84.21	84.07	83.92	83.78	83.64	82.2
82.3	85.14	85.00	84.86	84.72	84.58	84.44	84.30	84.16	84.02	83.88	83.74	82.3
82.4	85.24	85.10	84.96	84.82	84.68	84.54	84.40	84.26	84.12	83.98	83.84	82.4
82.5	85.33	85.19	85.06	84.92	84.78	84.64	84.50	84.36	84.22	84.08	83.94	82.5
82.6	85.43	85.29	85.15	85.01	84.88	84.74	84.60	84.46	84.32	84.18	84.03	82.6
82.7	85.52	85.39	85.25	85.11	84.97	84.83	84.69	84.55	84.41	84.27	84.13	82.7
82.8	85.62	85.48	85.35	85.21	85.07	84.93	84.79	84.65	84.51	84.37	84.23	82.8
82.9	85.72	85.58	85.44	85.31	85.17	85.03	84.89	84.75	84.61	84.47	84.33	82.9
83.0	85.81	85.68	85.54	85.40	85.26	85.13	84.99	84.85	84.71	84.57	84.43	83.0
83.1	85.91	85.77	85.64	85.50	85.36	85.22	85.08	84.94	84.81	84.67	84.53	83.1
83.2	86.01	85.87	85.73	85.60	85.46	85.32	85.18	85.04	84.90	84.76	84.62	83.2
83.3	86.10	85.97	85.83	85.69	85.55	85.42	85.28	85.14	85.00	84.86	84.72	83.3
83.4	86.20	86.06	85.93	85.79	85.65	85.51	85.38	85.24	85.10	84.96	84.82	83.4
83.5	86.29	86.16	86.02	85.89	85.75	85.61	85.47	85.33	85.20	85.06	84.92	83.5
83.6	86.39	86.25	86.12	85.98	85.85	85.71	85.57	85.43	85.29	85.15	85.02	83.6
83.7	86.49	86.35	86.21	86.08	85.94	85.81	85.67	85.53	85.39	85.25	85.11	83.7
83.8	86.58	86.45	86.31	86.18	86.04	85.90	85.76	85.63	85.49	85.35	85.21	83.8
83.9	86.68	86.54	86.41	86.27	86.14	86.00	85.86	85.72	85.59	85.45	85.31	83.9
84.0	86.77	86.64	86.50	86.37	86.23	86.10	85.96	85.82	85.68	85.55	85.41	84.0
84.1	86.87	86.73	86.60	86.46	86.33	86.19	86.06	85.92	85.78	85.64	85.51	84.1
84.2	86.97	86.83	86.70	86.56	86.43	86.29	86.15	86.02	85.88	85.74	85.60	84.2
84.3	87.06	86.93	86.79	86.66	86.52	86.39	86.25	86.11	85.98	85.84	85.70	84.3
84.4	87.16	87.02	86.89	86.75	86.62	86.48	86.35	86.21	86.07	85.94	85.80	84.4
84.5	87.25	87.12	86.98	86.85	86.72	86.58	86.44	86.31	86.17	86.04	85.90	84.5
84.6	87.35	87.21	87.08	86.95	86.81	86.68	86.54	86.41	86.27	86.13	86.00	84.6
84.7	87.44	87.31	87.18	87.04	86.91	86.77	86.64	86.50	86.37	86.23	86.09	84.7
84.8	87.54	87.41	87.27	87.14	87.01	86.87	86.74	86.60	86.46	86.33	86.19	84.8
84.9	87.63	87.50	87.37	87.24	87.10	86.97	86.83	86.70	86.56	86.43	86.29	84.9
85.0	87.73	87.60	87.47	87.33	87.20	87.06	86.93	86.79	86.66	86.52	86.39	85.0
85.1	87.83	87.69	87.56	87.43	87.29	87.16	87.03	86.89	86.76	86.62	86.49	85.1
85.2	87.92	87.79	87.66	87.52	87.39	87.26	87.12	86.99	86.85	86.72	86.58	85.2
85.3	88.02	87.89	87.75	87.62	87.49	87.35	87.22	87.09	86.95	86.82	86.68	85.3
85.4	88.11	87.98	87.85	87.72	87.58	87.45	87.32	87.18	87.05	86.91	86.78	85.4
85.5	88.21	88.08	87.94	87.81	87.68	87.55	87.41	87.28	87.15	87.01	86.88	85.5
85.6	88.30	88.17	88.04	87.91	87.78	87.64	87.51	87.38	87.24	87.11	86.97	85.6
85.7	88.40	88.27	88.14	88.01	87.87	87.74	87.61	87.47	87.34	87.21	87.07	85.7
85.8	88.49	88.36	88.23	88.10	87.97	87.84	87.70	87.57	87.44	87.30	87.17	85.8
85.9	88.59	88.46	88.33	88.20	88.07	87.93	87.80	87.67	87.54	87.40	87.27	85.9
86.0	88.68	88.55	88.42	88.29	88.16	88.03	87.90	87.77	87.63	87.50	87.36	86.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
86.0	88.68	88.55	88.42	88.29	88.16	88.03	87.90	87.77	87.63	87.50	87.36	86.0
86.1	88.78	88.65	88.52	88.39	88.26	88.13	87.99	87.86	87.73	87.60	87.46	86.1
86.2	88.87	88.74	88.62	88.48	88.35	88.22	88.09	87.96	87.83	87.69	87.56	86.2
86.3	88.97	88.84	88.71	88.58	88.45	88.32	88.19	88.06	87.92	87.79	87.66	86.3
86.4	89.06	88.94	88.81	88.68	88.55	88.42	88.28	88.15	88.02	87.89	87.76	86.4
86.5	89.16	89.03	88.90	88.77	88.64	88.51	88.38	88.25	88.12	87.99	87.85	86.5
86.6	89.25	89.13	89.00	88.87	88.74	88.61	88.48	88.35	88.22	88.08	87.95	86.6
86.7	89.35	89.22	89.09	88.96	88.83	88.70	88.57	88.44	88.31	88.18	88.05	86.7
86.8	89.44	89.32	89.19	89.06	88.93	88.80	88.67	88.54	88.41	88.28	88.15	86.8
86.9	89.54	89.41	89.28	89.16	89.03	88.90	88.77	88.64	88.51	88.37	88.24	86.9
87.0	89.63	89.51	89.38	89.25	89.12	88.99	88.86	88.73	88.60	88.47	88.34	87.0
87.1	89.73	89.60	89.47	89.35	89.22	89.09	88.96	88.83	88.70	88.57	88.44	87.1
87.2	89.82	89.70	89.57	89.44	89.31	89.19	89.06	88.93	88.80	88.67	88.54	87.2
87.3	89.92	89.79	89.66	89.54	89.41	89.28	89.15	89.02	88.89	88.76	88.63	87.3
87.4	90.01	89.89	89.76	89.63	89.51	89.38	89.25	89.12	88.99	88.86	88.73	87.4
87.5	90.11	89.98	89.85	89.73	89.60	89.47	89.35	89.22	89.09	88.96	88.83	87.5
87.6	90.20	90.08	89.95	89.82	89.70	89.57	89.44	89.31	89.18	89.05	88.93	87.6
87.7	90.30	90.17	90.05	89.92	89.79	89.67	89.54	89.41	89.28	89.15	89.02	87.7
87.8	90.39	90.27	90.14	90.01	89.89	89.76	89.63	89.51	89.38	89.25	89.12	87.8
87.9	90.48	90.36	90.24	90.11	89.98	89.86	89.73	89.60	89.47	89.35	89.22	87.9
88.0	90.58	90.45	90.33	90.20	90.08	89.95	89.83	89.70	89.57	89.44	89.31	88.0
88.1	90.67	90.55	90.43	90.30	90.17	90.05	89.92	89.80	89.67	89.54	89.41	88.1
88.2	90.77	90.64	90.52	90.40	90.27	90.14	90.02	89.89	89.76	89.64	89.51	88.2
88.3	90.86	90.74	90.61	90.49	90.37	90.24	90.11	89.99	89.86	89.73	89.61	88.3
88.4	90.96	90.83	90.71	90.59	90.46	90.34	90.21	90.08	89.96	89.83	89.70	88.4
88.5	91.05	90.93	90.80	90.68	90.56	90.43	90.31	90.18	90.05	89.93	89.80	88.5
88.6	91.14	91.02	90.90	90.78	90.65	90.53	90.40	90.28	90.15	90.02	89.90	88.6
88.7	91.24	91.12	90.99	90.87	90.75	90.62	90.50	90.37	90.25	90.12	89.99	88.7
88.8	91.33	91.21	91.09	90.97	90.84	90.72	90.59	90.47	90.34	90.22	90.09	88.8
88.9	91.43	91.30	91.18	91.06	90.94	90.81	90.69	90.57	90.44	90.31	90.19	88.9
89.0	91.52	91.40	91.28	91.16	91.03	90.91	90.79	90.66	90.54	90.41	90.29	89.0
89.1	91.61	91.49	91.37	91.25	91.13	91.00	90.88	90.76	90.63	90.51	90.38	89.1
89.2	91.71	91.59	91.47	91.35	91.22	91.10	90.98	90.85	90.73	90.60	90.48	89.2
89.3	91.80	91.68	91.56	91.44	91.32	91.20	91.07	90.95	90.83	90.70	90.58	89.3
89.4	91.90	91.78	91.66	91.53	91.41	91.29	91.17	91.05	90.92	90.80	90.67	89.4
89.5	91.99	91.87	91.75	91.63	91.51	91.39	91.26	91.14	91.02	90.89	90.77	89.5
89.6	92.08	91.96	91.84	91.72	91.60	91.48	91.36	91.24	91.11	90.99	90.87	89.6
89.7	92.18	92.06	91.94	91.82	91.70	91.58	91.46	91.33	91.21	91.09	90.96	89.7
89.8	92.27	92.15	92.03	91.91	91.79	91.67	91.55	91.43	91.31	91.18	91.06	89.8
89.9	92.36	92.25	92.13	92.01	91.89	91.77	91.65	91.53	91.40	91.28	91.16	89.9
90.0	92.46	92.34	92.22	92.10	91.98	91.86	91.74	91.62	91.50	91.38	91.25	90.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
90.0	92.46	92.34	92.22	92.10	91.98	91.86	91.74	91.62	91.50	91.38	91.25	90.0
90.1	92.55	92.43	92.32	92.20	92.08	91.96	91.84	91.72	91.60	91.47	91.35	90.1
90.2	92.64	92.53	92.41	92.29	92.17	92.05	91.93	91.81	91.69	91.57	91.45	90.2
90.3	92.74	92.62	92.50	92.39	92.27	92.15	92.03	91.91	91.79	91.67	92.55	90.3
90.4	92.83	92.71	92.60	92.48	92.36	92.24	92.12	92.00	91.88	91.76	91.64	90.4
90.5	92.92	92.81	92.69	92.57	92.46	92.34	92.22	92.10	91.98	91.86	91.74	90.5
90.6	93.02	92.90	92.78	92.67	92.55	92.43	92.31	92.20	92.08	91.96	91.84	90.6
90.7	93.11	92.99	92.88	92.76	92.65	92.53	92.41	92.29	92.17	92.05	91.93	90.7
90.8	93.20	93.09	92.97	92.86	92.74	92.62	92.50	92.39	92.27	92.15	92.03	90.8
90.9	93.30	93.18	93.07	92.95	92.83	92.72	92.60	92.48	92.36	92.24	92.13	90.9
91.0	93.39	93.27	93.16	93.04	92.93	92.81	92.70	92.58	92.46	92.34	92.22	91.0
91.1	93.48	93.37	93.25	93.14	93.02	92.91	92.79	92.67	92.56	92.44	92.32	91.1
91.2	93.58	93.46	93.35	93.24	93.12	93.00	92.89	92.77	92.65	92.53	92.41	91.2
91.3	93.67	93.55	93.44	93.33	93.21	93.10	92.98	92.86	92.75	92.63	92.51	91.3
91.4	93.76	93.65	93.53	93.42	93.31	93.19	93.08	92.96	92.84	92.73	92.61	91.4
91.5	93.85	93.74	93.63	93.51	93.40	93.29	93.17	93.05	92.94	92.82	92.70	91.5
91.6	93.95	93.83	93.72	93.61	93.49	93.38	93.27	93.15	93.03	92.92	92.80	91.6
91.7	94.04	93.93	93.81	93.70	93.59	93.47	93.36	93.25	93.13	93.01	92.90	91.7
91.8	94.13	94.02	93.91	93.80	93.68	93.57	93.46	93.34	93.23	93.11	92.99	91.8
91.9	94.22	94.11	94.00	93.89	93.78	93.66	93.55	93.44	93.32	93.21	93.09	91.9
92.0	94.32	94.21	94.09	93.98	93.87	93.76	93.64	93.53	93.42	93.30	93.19	92.0
92.1	94.41	94.30	94.19	94.08	93.96	93.85	93.74	93.63	93.51	93.40	93.28	92.1
92.2	94.50	94.39	94.28	94.17	94.06	93.95	93.83	93.72	93.61	93.49	93.38	92.2
92.3	94.59	94.48	94.37	94.26	94.15	94.04	93.93	93.82	93.70	93.59	93.47	92.3
92.4	94.69	94.58	94.47	94.36	94.25	94.14	94.02	93.91	93.80	93.68	93.57	92.4
92.5	94.78	94.67	94.56	94.45	94.34	94.23	94.12	94.01	93.89	93.78	93.67	92.5
92.6	94.87	94.76	94.65	94.54	94.43	94.32	94.21	94.10	93.99	93.88	93.76	92.6
92.7	94.96	94.85	94.75	94.64	94.53	94.42	94.31	94.20	94.08	93.97	93.86	92.7
92.8	95.05	94.95	94.84	94.73	94.62	94.51	94.40	94.29	94.18	94.07	93.96	92.8
92.9	95.15	95.04	94.93	94.82	94.72	94.61	94.50	94.39	94.28	94.16	94.05	92.9
93.0	95.24	95.13	95.03	94.92	94.81	94.70	94.59	94.48	94.37	94.26	94.15	93.0
93.1	95.33	95.22	95.12	95.01	94.90	94.79	94.69	94.58	94.47	94.35	94.24	93.1
93.2	95.42	95.32	95.21	95.10	95.00	94.89	94.78	94.67	94.56	94.45	94.34	93.2
93.3	95.51	95.41	95.30	95.20	95.09	94.98	94.87	94.77	94.66	94.55	94.44	93.3
93.4	95.61	95.50	95.40	95.29	95.18	95.08	94.97	94.86	94.75	94.64	94.53	93.4
93.5	95.70	95.59	95.49	95.38	95.28	95.17	95.06	94.95	94.85	94.74	94.63	93.5
93.6	95.79	95.69	95.58	95.48	95.37	95.26	95.16	95.05	94.94	94.83	94.72	93.6
93.7	95.88	95.78	95.67	95.57	95.46	95.36	95.25	95.14	95.04	94.93	94.82	93.7
93.8	95.97	95.87	95.77	95.66	95.56	95.45	95.34	95.24	95.13	95.02	94.91	93.8
93.9	96.06	95.96	95.86	95.75	95.65	95.54	95.44	95.33	95.23	95.12	95.01	93.9
94.0	96.16	96.05	95.95	95.85	95.74	95.64	95.53	95.43	95.32	95.21	95.11	94.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
94.0	96.16	96.05	95.95	95.85	95.74	95.64	95.53	95.43	95.32	95.21	95.11	94.0
94.1	96.25	96.15	96.04	95.94	95.84	95.73	95.63	95.52	95.42	95.31	95.20	94.1
94.2	96.34	96.24	96.13	96.03	95.93	95.83	95.72	95.62	95.51	95.40	95.30	94.2
94.3	96.43	96.33	96.23	96.12	96.02	95.92	95.81	95.71	95.61	95.50	95.39	94.3
94.4	96.52	96.42	96.32	96.22	96.12	96.01	95.91	95.80	95.70	95.59	95.49	94.4
94.5	96.61	96.51	96.41	96.31	96.21	96.11	96.00	95.90	95.79	95.69	95.58	94.5
94.6	96.70	96.60	96.50	96.40	96.30	96.20	96.10	95.99	95.89	95.79	95.68	94.6
94.7	96.79	96.69	96.59	96.49	96.39	96.29	96.19	96.09	95.98	95.88	95.78	94.7
94.8	96.88	96.79	96.69	96.59	96.49	96.39	96.28	96.18	96.08	95.98	95.87	94.8
94.9	96.98	96.88	96.78	96.68	96.58	96.48	96.38	96.28	96.17	96.07	95.97	94.9
95.0	97.07	96.97	96.87	96.77	96.67	96.57	96.47	96.37	96.27	96.17	96.06	95.0
95.1	97.16	97.06	96.96	96.86	96.76	96.66	96.56	96.46	96.36	96.26	96.16	95.1
95.2	97.25	97.15	97.05	96.96	96.86	96.76	96.66	96.56	96.46	96.36	96.25	95.2
95.3	97.34	97.24	97.14	97.05	96.95	96.85	96.75	96.65	96.55	96.45	96.35	95.3
95.4	97.43	97.33	97.24	97.14	97.04	96.94	96.84	96.75	96.65	96.54	96.44	95.4
95.5	97.52	97.42	97.33	97.23	97.13	97.04	96.94	96.84	96.74	96.64	96.54	95.5
95.6	97.61	97.51	97.42	97.32	97.23	97.13	97.03	96.93	96.83	96.73	96.63	95.6
95.7	97.70	97.60	97.51	97.41	97.32	97.22	97.12	97.03	96.93	96.83	96.73	95.7
95.8	97.79	97.70	97.60	97.51	97.41	97.31	97.22	97.12	97.02	96.92	96.82	95.8
95.9	97.88	97.79	97.69	97.60	97.50	97.41	97.31	97.21	97.12	97.02	96.92	95.9
96.0	97.97	97.88	97.78	97.69	97.59	97.50	97.40	97.31	97.21	97.11	97.01	96.0
96.1	98.06	97.97	97.87	97.78	97.69	97.59	97.50	97.40	97.30	97.21	97.11	96.1
96.2	98.15	98.06	97.96	97.87	97.78	97.68	97.59	97.49	97.40	97.30	97.20	96.2
96.3	98.24	98.15	98.06	97.96	97.87	97.78	97.68	97.59	97.49	97.40	97.30	96.3
96.4	98.33	98.24	98.15	98.05	97.96	97.87	97.78	97.68	97.59	97.49	97.39	96.4
96.5	98.42	98.33	98.24	98.15	98.05	97.96	97.87	97.77	97.68	97.58	97.49	96.5
96.6	98.51	98.42	98.33	98.24	98.14	98.05	97.96	97.87	97.77	97.68	97.58	96.6
96.7	98.60	98.51	98.42	98.33	98.24	98.15	98.05	97.96	97.87	97.77	97.68	96.7
96.8	98.68	98.60	98.51	98.42	98.33	98.24	98.15	98.05	97.96	97.87	97.77	96.8
96.9	98.77	98.69	98.60	98.51	98.42	98.33	98.24	98.15	98.05	97.96	97.87	96.9
97.0	98.86	98.78	98.69	98.60	98.51	98.42	98.33	98.24	98.15	98.06	97.96	97.0
97.1	98.95	98.86	98.78	98.69	98.60	98.51	98.42	98.33	98.24	98.15	98.06	97.1
97.2	99.04	98.95	98.87	98.78	98.69	98.60	98.51	98.42	98.33	98.24	98.15	97.2
97.3	99.13	99.01	98.96	98.87	98.78	98.70	98.61	98.52	98.43	98.34	98.25	97.3
97.4	99.22	99.13	99.05	98.96	98.87	98.79	98.70	98.61	98.52	98.43	98.34	97.4
97.5	99.30	99.22	99.14	99.05	98.96	98.88	98.79	98.70	98.61	98.52	98.43	97.5
97.6	99.39	99.31	99.22	99.14	99.05	98.97	98.88	98.79	98.71	98.62	98.53	97.6
97.7	99.48	99.40	99.31	99.23	99.15	99.06	98.97	98.89	98.80	98.71	98.62	97.7
97.8	99.57	99.49	99.40	99.32	99.24	99.15	99.07	98.98	98.89	98.80	98.72	97.8
97.9	99.66	99.57	99.49	99.41	99.33	99.24	99.16	99.07	98.98	98.90	98.81	97.9
98.0	99.74	99.66	99.58	99.50	99.42	99.33	99.25	99.16	99.08	98.99	98.90	98.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	
98.0	99.74	99.66	99.58	99.50	99.42	99.33	99.25	99.16	99.08	98.99	98.90	98.0
98.1	99.83	99.75	99.67	99.59	99.51	99.42	99.34	99.25	99.17	99.08	99.00	98.1
98.2	99.92	99.84	99.76	99.68	99.60	99.51	99.43	99.35	99.26	99.18	99.09	98.2
98.3	—	99.92	99.85	99.77	99.68	99.60	99.52	99.44	99.35	99.27	99.19	98.3
98.4	—	—	99.93	99.85	99.77	99.69	99.61	99.53	99.45	99.36	99.28	98.4
98.5	—	—	—	99.94	99.86	99.78	99.70	99.62	99.54	99.46	99.37	98.5
98.6	—	—	—	—	99.95	99.87	99.79	99.71	99.63	99.55	99.47	98.6
98.7	—	—	—	—	—	99.96	99.88	99.80	99.72	99.64	99.56	98.7
98.8	—	—	—	—	—	—	99.97	99.89	99.81	99.73	99.65	98.8
98.9	—	—	—	—	—	—	—	99.99	99.91	99.83	99.75	98.9
99.0	—	—	—	—	—	—	—	—	100.00	99.92	99.84	99.0
99.1	—	—	—	—	—	—	—	—	—	—	99.93	99.1
99.2	—	—	—	—	—	—	—	—	—	—	—	99.2
99.3	—	—	—	—	—	—	—	—	—	—	—	99.3
99.4	—	—	—	—	—	—	—	—	—	—	—	99.4
99.5	—	—	—	—	—	—	—	—	—	—	—	99.5
99.6	—	—	—	—	—	—	—	—	—	—	—	99.6
99.7	—	—	—	—	—	—	—	—	—	—	—	99.7
99.8	—	—	—	—	—	—	—	—	—	—	—	99.8
99.9	—	—	—	—	—	—	—	—	—	—	—	99.9
100.0	—	—	—	—	—	—	—	—	—	—	—	100.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
18.0	19.41	19.27	19.13	18.99	18.85	18.71	18.57	18.42	18.28	18.14	18.00	18.0
18.1	19.52	19.38	19.23	19.09	18.95	18.81	18.67	18.53	18.39	18.24	18.10	18.1
18.2	19.62	19.48	19.34	19.20	19.06	18.91	18.77	18.63	18.49	18.34	18.20	18.2
18.3	19.73	19.59	19.45	19.30	19.16	19.02	18.88	18.73	18.59	18.44	18.30	18.3
18.4	19.84	19.70	19.55	19.41	19.27	19.12	18.98	18.83	18.69	18.54	18.40	18.4
18.5	19.95	19.80	19.66	19.52	19.37	19.23	19.08	18.94	18.79	18.65	18.50	18.5
18.6	20.06	19.91	19.77	19.62	19.48	19.33	19.18	19.04	18.89	18.75	18.60	18.6
18.7	20.16	20.02	19.87	19.73	19.58	19.43	19.29	19.14	18.99	18.85	18.70	18.7
18.8	20.27	20.13	19.98	19.83	19.68	19.54	19.39	19.24	19.10	18.95	18.80	18.8
18.9	20.38	20.23	20.08	19.94	19.79	19.64	19.49	19.34	19.20	19.05	18.90	18.9
19.0	20.49	20.34	20.19	20.04	19.89	19.74	19.60	19.45	19.30	19.15	19.00	19.0
19.1	20.60	20.45	20.30	20.15	20.00	19.85	19.70	19.55	19.40	19.25	19.10	19.1
19.2	20.70	20.55	20.40	20.25	20.10	19.95	19.80	19.65	19.50	19.35	19.20	19.2
19.3	20.81	20.66	20.51	20.36	20.21	20.06	19.90	19.75	19.60	19.45	19.30	19.3
19.4	20.92	20.77	20.62	20.46	20.31	20.16	20.01	19.86	19.70	19.55	19.40	19.4
19.5	21.03	20.87	20.72	20.57	20.42	20.26	20.11	19.96	19.81	19.65	19.50	19.5
19.6	21.14	20.98	20.83	20.67	20.52	20.37	20.21	20.06	19.91	19.75	19.60	19.6
19.7	21.24	21.09	20.93	20.78	20.62	20.47	20.32	20.16	20.01	19.85	19.70	19.7
19.8	21.35	21.19	21.04	20.88	20.73	20.57	20.42	20.26	20.11	19.95	19.80	19.8
19.9	21.46	21.30	21.25	20.99	20.83	20.68	20.52	20.37	20.21	20.06	19.90	19.9
20.0	21.57	21.41	21.25	21.09	20.94	20.78	20.62	20.47	20.31	20.16	20.00	20.0
20.1	21.67	21.52	21.36	21.20	21.04	20.88	20.73	20.57	20.41	20.26	20.10	20.1
20.2	21.78	21.62	21.46	21.30	21.15	20.99	20.83	20.67	20.51	20.36	20.20	20.2
20.3	21.89	21.73	21.57	21.41	21.25	21.09	20.93	20.77	20.62	20.46	20.30	20.3
20.4	22.00	21.83	21.67	21.51	21.35	21.20	21.04	20.88	20.72	20.56	20.40	20.4
20.5	22.10	21.94	21.78	21.62	21.46	21.30	21.14	20.98	20.82	20.66	20.50	20.5
20.6	22.21	22.05	21.89	21.72	21.56	21.40	21.24	21.08	20.92	20.76	20.60	20.6
20.7	22.32	22.15	21.99	21.83	21.67	21.51	21.34	21.18	21.02	20.86	20.70	20.7
20.8	22.42	22.26	22.10	21.93	21.77	21.61	21.45	21.28	21.12	20.96	20.80	20.8
20.9	22.53	22.37	22.20	22.04	21.88	21.71	21.55	21.39	21.22	21.06	20.90	20.9
21.0	22.64	22.47	22.31	22.14	21.98	21.82	21.65	21.49	21.33	21.16	21.00	21.0
21.1	22.75	22.58	22.41	22.25	22.08	21.92	21.75	21.59	21.43	21.26	21.10	21.1
21.2	22.85	22.69	22.52	22.35	22.19	22.02	21.86	21.69	21.53	21.36	21.20	21.2
21.3	22.96	22.79	22.63	22.46	22.29	22.13	21.96	21.79	21.63	21.46	21.30	21.3
21.4	23.07	22.90	22.73	22.56	22.40	22.23	22.06	21.90	21.73	21.57	21.40	21.4
21.5	23.17	23.01	22.84	22.67	22.50	22.33	22.17	22.00	21.83	21.67	21.50	21.5
21.6	23.28	23.11	22.94	22.77	22.60	22.44	22.27	22.10	21.93	21.77	21.60	21.6
21.7	23.39	23.22	23.05	22.88	22.71	22.54	22.37	22.20	22.03	21.87	21.70	21.7
21.8	23.49	23.32	23.15	22.98	22.81	22.64	22.47	22.30	22.14	21.97	21.80	21.8
21.9	23.60	23.43	23.26	23.09	22.92	22.75	22.58	22.41	22.24	22.07	21.90	21.9
22.0	23.71	23.54	23.36	23.19	23.02	22.85	22.68	22.51	22.34	22.17	22.00	22.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
22.0	23.71	23.54	23.36	23.19	23.02	22.85	22.68	22.51	22.34	22.17	22.00	22.0
22.1	23.81	23.64	23.47	23.30	23.12	22.95	22.78	22.61	22.44	22.27	22.10	22.1
22.2	23.92	23.75	23.57	23.40	23.23	23.06	22.88	22.71	22.54	22.37	22.20	22.2
22.3	24.03	23.85	23.68	23.50	23.33	23.16	22.99	22.81	22.64	22.47	22.30	22.3
22.4	24.13	23.96	23.78	23.61	23.43	23.26	23.09	22.92	22.74	22.57	22.40	22.4
22.5	24.24	24.06	23.89	23.71	23.54	23.36	23.19	23.02	22.84	22.67	22.50	22.5
22.6	24.35	24.17	23.99	23.82	23.64	23.47	23.29	23.12	22.95	22.77	22.60	22.6
22.7	24.45	24.28	24.10	23.92	23.75	23.57	23.40	23.22	23.05	22.87	22.70	22.7
22.8	24.56	24.38	24.20	24.03	23.85	23.67	23.50	23.32	23.15	22.97	22.80	22.8
22.9	24.67	24.49	24.31	24.13	23.95	23.78	23.60	23.42	23.25	23.07	22.90	22.9
23.0	24.77	24.59	24.41	24.23	24.06	23.88	23.70	23.53	23.35	23.17	23.00	23.0
23.1	24.88	24.70	24.52	24.34	24.16	23.98	23.80	23.63	23.45	23.28	23.10	23.1
23.2	24.98	24.80	24.62	24.44	24.26	24.08	23.91	23.73	23.55	23.38	23.20	23.2
23.3	25.09	24.91	24.73	24.55	24.37	24.19	24.01	23.83	23.65	23.48	23.30	23.3
23.4	25.19	25.01	24.83	24.65	24.47	24.29	24.11	23.93	23.75	23.58	23.40	23.4
23.5	25.30	25.12	24.94	24.75	24.57	24.39	24.21	24.03	23.86	23.68	23.50	23.5
23.6	25.41	25.22	25.04	24.86	24.68	24.50	24.32	24.14	23.96	23.78	23.60	23.6
23.7	25.51	25.33	25.14	24.96	24.78	24.60	24.42	24.24	24.06	23.88	23.70	23.7
23.8	25.62	25.43	25.25	25.07	24.88	24.70	24.52	24.34	24.16	23.98	23.80	23.8
23.9	25.72	25.54	25.35	25.17	24.99	24.80	24.62	24.44	24.26	24.08	23.90	23.9
24.0	25.83	25.64	25.46	25.27	25.09	24.91	24.72	24.54	24.36	24.18	24.00	24.0
24.1	25.93	25.75	25.56	25.38	25.19	25.01	24.83	24.64	24.46	24.28	24.10	24.1
24.2	26.04	25.85	25.67	25.48	25.30	25.11	24.93	24.75	24.56	24.38	24.20	24.2
24.3	26.14	25.96	25.77	25.58	25.40	25.21	25.03	24.85	24.66	24.48	24.30	24.3
24.4	26.25	26.06	25.87	25.69	25.50	25.32	25.13	24.95	24.77	24.58	24.40	24.4
24.5	26.35	26.17	25.98	25.79	25.61	25.42	25.23	25.05	24.87	24.68	24.50	24.5
24.6	26.46	26.27	26.08	25.89	25.71	25.52	25.34	25.15	24.97	24.78	24.60	24.6
24.7	26.56	26.37	26.19	26.00	25.81	25.62	25.44	25.25	25.07	24.88	24.70	24.7
24.8	26.67	26.48	26.29	26.10	25.91	25.73	25.54	25.35	25.17	24.98	24.80	24.8
24.9	26.77	26.58	26.39	26.20	26.02	25.83	25.64	25.46	25.27	25.08	24.90	24.9
25.0	26.88	26.69	26.50	26.31	26.12	25.93	25.74	25.56	25.37	25.19	25.00	25.0
25.1	26.98	26.79	26.60	26.41	26.22	26.03	25.85	25.66	25.47	25.29	25.10	25.1
25.2	27.09	26.90	26.70	26.51	26.32	26.14	25.95	25.76	25.57	25.39	25.20	25.2
25.3	27.19	27.00	26.81	26.62	26.43	26.24	26.05	25.86	25.67	25.49	25.30	25.3
25.4	27.30	27.10	26.91	26.72	26.53	26.34	26.15	25.96	25.77	25.59	25.40	25.4
25.5	27.40	27.21	27.02	26.82	26.63	26.44	26.25	26.06	25.88	25.69	25.50	25.5
25.6	27.50	27.31	27.12	26.93	26.74	26.54	26.35	26.17	25.98	25.79	25.60	25.6
25.7	27.61	27.42	27.22	27.03	26.84	26.65	26.46	26.27	26.08	25.89	25.70	25.7
25.8	27.71	27.52	27.33	27.13	26.94	26.75	26.56	26.37	26.18	25.99	25.80	25.8
25.9	27.82	27.62	27.43	27.24	27.04	26.85	26.66	26.47	26.28	26.09	25.90	25.9
26.0	27.92	27.73	27.53	27.34	27.15	26.95	26.76	26.57	26.38	26.19	26.00	26.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
26.0	27.92	27.73	27.53	27.34	27.15	26.95	26.76	26.57	26.38	26.19	26.00	26.0
26.1	28.03	27.83	27.64	27.44	27.25	27.05	26.86	26.67	26.48	26.29	26.10	26.1
26.2	28.13	27.93	27.74	27.54	27.35	27.16	26.96	26.77	26.58	26.39	26.20	26.2
26.3	28.23	28.04	27.84	27.65	27.45	27.26	27.07	26.87	26.68	26.49	26.30	26.3
26.4	28.34	28.14	27.94	27.75	27.55	27.36	27.17	26.97	26.78	26.59	26.40	26.4
26.5	28.44	28.24	28.05	27.85	27.66	27.46	27.27	27.08	26.88	26.69	26.50	26.5
26.6	28.54	28.35	28.15	27.95	27.76	27.56	27.37	27.18	26.98	26.79	26.60	26.6
26.7	28.65	28.45	28.25	28.06	27.86	27.67	27.47	27.28	27.08	26.89	26.70	26.7
26.8	28.75	28.55	28.36	28.16	27.96	27.77	27.57	27.38	27.19	26.99	26.80	26.8
26.9	28.85	28.66	28.46	28.26	28.07	27.87	27.67	27.48	27.29	27.09	26.90	26.9
27.0	28.96	28.76	28.56	28.36	28.17	27.97	27.78	27.58	27.39	27.19	27.00	27.0
27.1	29.06	28.86	28.66	28.47	28.27	28.07	27.88	27.68	27.49	27.29	27.10	27.1
27.2	29.16	28.96	28.77	28.57	28.37	28.17	27.98	27.78	27.59	27.39	27.20	27.2
27.3	29.27	29.07	28.87	28.67	28.47	28.28	28.08	27.88	27.69	27.49	27.30	27.3
27.4	29.37	29.17	28.97	28.77	28.58	28.38	28.18	27.99	27.79	27.59	27.40	27.4
27.5	29.47	29.27	29.07	28.88	28.68	28.48	28.28	28.09	27.89	27.69	27.50	27.5
27.6	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.19	27.99	27.80	27.60	27.6
27.7	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.29	28.09	27.90	27.70	27.7
27.8	29.78	29.58	29.38	29.18	28.98	28.78	28.59	28.39	28.19	28.00	27.80	27.8
27.9	29.88	29.68	29.48	29.28	29.08	28.89	28.69	28.49	28.29	28.10	27.90	27.9
28.0	29.99	29.79	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.20	28.00	28.0
28.1	30.09	29.89	29.69	29.49	29.29	29.09	28.89	28.69	28.49	28.30	28.10	28.1
28.2	30.19	29.99	29.79	29.59	29.39	29.19	28.99	28.79	28.59	28.40	28.20	28.2
28.3	30.29	30.09	29.89	29.69	29.49	29.29	29.09	28.89	28.69	28.50	28.30	28.3
28.4	30.40	30.19	29.99	29.79	29.59	29.39	29.19	28.99	28.80	28.60	28.40	28.4
28.5	30.50	30.30	30.10	29.89	29.69	29.49	29.29	29.09	28.90	28.70	28.50	28.5
28.6	30.60	30.40	30.20	30.00	29.79	29.59	29.39	29.20	29.00	28.80	28.60	28.6
28.7	30.70	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.7
28.8	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.8
28.9	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.9
29.0	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	29.0
29.1	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	29.1
29.2	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.2
29.3	31.32	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.3
29.4	31.42	31.21	31.01	30.81	30.61	30.40	30.20	30.00	29.80	29.60	29.40	29.4
29.5	31.52	31.32	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.5
29.6	31.62	31.42	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.6
29.7	31.72	31.52	31.31	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.7
29.8	31.82	31.62	31.42	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.8
29.9	31.93	31.72	31.52	31.31	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.9
30.0	32.03	31.82	31.62	31.41	31.21	31.01	30.81	30.60	30.40	30.20	30.00	30.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
30.0	32.03	31.82	31.62	31.41	31.21	31.01	30.81	30.60	30.40	30.20	30.00	30.0
30.1	32.13	31.92	31.72	31.52	31.31	31.11	30.91	30.70	30.50	30.30	30.10	30.1
30.2	32.23	32.03	31.82	31.62	31.41	31.21	31.01	30.80	30.60	30.40	30.20	30.2
30.3	32.33	32.13	31.92	31.72	31.51	31.31	31.11	30.91	30.70	30.50	30.30	30.3
30.4	32.43	32.23	32.02	31.82	31.62	31.41	31.21	31.01	30.80	30.60	30.40	30.4
30.5	32.53	32.33	32.12	31.92	31.72	31.51	31.31	31.11	30.90	30.70	30.50	30.5
30.6	32.64	32.43	32.23	32.02	31.82	31.61	31.41	31.21	31.00	30.80	30.60	30.6
30.7	32.74	32.53	32.33	32.12	31.92	31.71	31.51	31.31	31.10	30.90	30.70	30.7
30.8	32.84	32.63	32.43	32.22	32.02	31.81	31.61	31.41	31.20	31.00	30.80	30.8
30.9	32.94	32.73	32.53	32.32	32.12	31.91	31.71	31.51	31.30	31.10	30.90	30.9
31.0	33.04	32.83	32.63	32.42	32.22	32.02	31.81	31.61	31.41	31.20	31.00	31.0
31.1	33.14	32.94	32.73	32.52	32.32	32.12	31.91	31.71	31.51	31.30	31.10	31.1
31.2	33.24	33.04	32.83	32.63	32.42	32.22	32.01	31.81	31.61	31.40	31.20	31.2
31.3	33.34	33.14	32.93	32.73	32.52	32.32	32.11	31.91	31.71	31.50	31.30	31.3
31.4	33.44	33.24	33.03	32.83	32.62	32.42	32.21	32.01	31.81	31.60	31.40	31.4
31.5	33.54	33.34	33.13	32.93	32.72	32.52	32.31	32.11	31.91	31.70	31.50	31.5
31.6	33.65	33.44	33.23	33.03	32.82	32.62	32.41	32.21	32.01	31.80	31.60	31.6
31.7	33.75	33.54	33.33	33.13	32.92	32.72	32.51	32.31	32.11	31.90	31.70	31.7
31.8	33.85	33.64	33.43	33.23	33.02	32.82	32.61	32.41	32.21	32.00	31.80	31.8
31.9	33.95	33.74	33.54	33.33	33.12	32.92	32.72	32.51	32.31	32.10	31.90	31.9
32.0	34.05	33.84	33.64	33.43	33.22	33.02	32.82	32.61	32.41	32.20	32.00	32.0
32.1	34.15	33.94	33.74	33.53	33.33	33.12	32.92	32.71	32.51	32.30	32.10	32.1
32.2	34.25	34.04	33.84	33.63	33.43	33.22	33.02	32.81	32.61	32.40	32.20	32.2
32.3	34.35	34.14	33.94	33.73	33.53	33.32	33.12	32.91	32.71	32.50	32.30	32.3
32.4	34.45	34.24	34.04	33.83	33.63	33.42	33.22	33.01	32.81	32.60	32.40	32.4
32.5	34.55	34.34	34.14	33.93	33.73	33.52	33.32	33.11	32.91	32.70	32.50	32.5
32.6	34.65	34.44	34.24	34.03	33.83	33.62	33.42	33.21	33.01	32.80	32.60	32.6
32.7	34.75	34.54	34.34	34.13	33.93	33.72	33.52	33.31	33.11	32.90	32.70	32.7
32.8	34.85	34.64	34.44	34.23	34.03	33.82	33.62	33.41	33.21	33.00	32.80	32.8
32.9	34.95	34.74	34.54	34.33	34.13	33.92	33.72	33.51	33.31	33.10	32.90	32.9
33.0	35.05	34.84	34.64	34.43	34.23	34.02	33.82	33.61	33.41	33.20	33.00	33.0
33.1	35.15	34.94	34.74	34.53	34.33	34.12	33.92	33.71	33.51	33.30	33.10	33.1
33.2	35.25	35.04	34.84	34.63	34.43	34.22	34.02	33.81	33.61	33.40	33.20	33.2
33.3	35.35	35.14	34.94	34.73	34.53	34.32	34.12	33.91	33.71	33.50	33.30	33.3
33.4	35.45	35.24	35.04	34.83	34.63	34.42	34.22	34.01	33.81	33.60	33.40	33.4
33.5	35.55	35.34	35.14	34.93	34.73	34.52	34.32	34.11	33.91	33.70	33.50	33.5
33.6	35.65	35.44	35.24	35.03	34.83	34.62	34.42	34.21	34.01	33.80	33.60	33.6
33.7	35.75	35.54	35.34	35.13	34.93	34.72	34.52	34.31	34.11	33.90	33.70	33.7
33.8	35.85	35.64	35.44	35.23	35.03	34.82	34.62	34.41	34.21	34.00	33.80	33.8
33.9	35.95	35.74	35.54	35.33	35.13	34.92	34.72	34.51	34.31	34.10	33.90	33.9
34.0	36.05	35.84	35.64	35.43	35.23	35.02	34.82	34.61	34.41	34.20	34.00	34.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
34.0	36.05	35.84	35.64	35.43	35.23	35.02	34.82	34.61	34.41	34.20	34.00	34.0
34.1	36.15	35.94	35.74	35.53	35.33	35.12	34.92	34.71	34.51	34.30	34.10	34.1
34.2	36.25	36.04	35.84	35.63	35.43	35.22	35.02	34.81	34.61	34.40	34.20	34.2
34.3	36.35	36.14	35.94	35.73	35.53	35.32	35.12	34.91	34.71	34.50	34.30	34.3
34.4	36.45	36.24	36.04	35.83	35.63	35.42	35.22	35.01	34.81	34.60	34.40	34.4
34.5	36.55	36.34	36.14	35.93	35.73	35.52	35.32	35.11	34.91	34.70	34.50	34.5
34.6	36.63	36.44	36.24	36.03	35.83	35.62	35.42	35.21	35.01	34.80	34.60	34.6
34.7	36.75	36.54	36.34	36.13	35.93	35.72	35.52	35.31	35.11	34.90	34.70	34.7
34.8	36.85	36.64	36.44	36.23	36.03	35.82	35.62	35.41	35.21	35.00	34.80	34.8
34.9	36.95	36.74	36.54	36.33	36.13	35.92	35.72	35.51	35.31	35.10	34.90	34.9
35.0	37.05	36.84	36.64	36.43	36.23	36.02	35.82	35.61	35.41	35.20	35.00	35.0
35.1	37.15	36.94	36.74	36.53	36.33	36.12	35.92	35.71	35.51	35.30	35.10	35.1
35.2	37.25	37.04	36.84	36.63	36.43	36.22	36.02	35.81	35.61	35.40	35.20	35.2
35.3	37.34	37.14	36.94	36.73	36.53	36.32	36.12	35.91	35.71	35.50	35.30	35.3
35.4	37.44	37.24	37.03	36.83	36.63	36.42	36.22	36.01	35.81	35.60	35.40	35.4
35.5	37.54	37.34	37.13	36.93	36.73	36.52	36.32	36.11	35.91	35.70	35.50	35.5
35.6	37.64	37.44	37.23	37.03	36.82	36.62	36.42	36.21	36.01	35.80	35.60	35.6
35.7	37.74	37.54	37.33	37.13	36.92	36.72	36.52	36.31	36.11	35.90	35.70	35.7
35.8	37.84	37.64	37.43	37.23	37.02	36.82	36.62	36.41	36.21	36.00	35.80	35.8
35.9	37.94	37.74	37.53	37.33	37.12	36.92	36.72	36.51	36.31	36.10	35.90	35.9
36.0	38.04	37.84	37.63	37.43	37.22	37.02	36.82	36.61	36.41	36.20	36.00	36.0
36.1	38.14	37.94	37.73	37.53	37.32	37.12	36.92	36.71	36.51	36.30	36.10	36.1
36.2	38.24	38.03	37.83	37.63	37.42	37.22	37.01	36.81	36.61	36.40	36.20	36.2
36.3	38.34	38.13	37.93	37.73	37.52	37.32	37.11	36.91	36.71	36.50	36.30	36.3
36.4	38.44	38.23	38.03	37.83	37.62	37.42	37.21	37.01	36.81	36.60	36.40	36.4
36.5	38.54	38.33	38.13	37.93	37.72	37.52	37.31	37.11	36.91	36.70	36.50	36.5
36.6	38.64	38.43	38.23	38.02	37.82	37.62	37.41	37.21	37.01	36.80	36.60	36.6
36.7	38.73	38.53	38.33	38.12	37.92	37.72	37.51	37.31	37.11	36.90	36.70	36.7
36.8	38.83	38.63	38.43	38.22	38.02	37.82	37.61	37.41	37.21	37.00	36.80	36.8
36.9	38.93	38.73	38.53	38.32	38.12	37.92	37.71	37.51	37.31	37.10	36.90	36.9
37.0	39.03	38.83	38.63	38.42	38.22	38.02	37.81	37.61	37.41	37.20	37.00	37.0
37.1	39.13	38.93	38.72	38.52	38.32	38.12	37.91	37.71	37.51	37.30	37.10	37.1
37.2	39.23	39.03	38.82	38.62	38.42	38.21	38.01	37.81	37.61	37.40	37.20	37.2
37.3	39.33	39.13	38.92	38.72	38.52	38.31	38.11	37.91	37.71	37.50	37.30	37.3
37.4	39.43	39.23	39.02	38.82	38.62	38.41	38.21	38.01	37.81	37.60	37.40	37.4
37.5	39.53	39.32	39.12	38.92	38.72	38.51	38.31	38.11	37.91	37.70	37.50	37.5
37.6	39.63	39.42	39.22	39.02	38.82	38.61	38.41	38.21	38.01	37.80	37.60	37.6
37.7	39.72	39.52	39.32	39.12	38.92	38.71	38.51	38.31	38.11	37.90	37.70	37.7
37.8	39.82	39.62	39.42	39.22	39.01	38.81	38.61	38.41	38.20	38.00	37.80	37.8
37.9	39.92	39.72	39.52	39.32	39.11	38.91	38.71	38.51	38.30	38.10	37.90	37.9
38.0	40.02	39.82	39.62	39.42	39.21	39.01	38.81	38.61	38.40	38.20	38.00	38.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
38.0	40.02	39.82	39.62	39.42	39.21	39.01	38.81	38.61	38.40	38.20	38.00	38.0
38.1	40.12	39.92	39.72	39.51	39.31	39.11	38.91	38.71	38.50	38.30	38.10	38.1
38.2	40.22	40.02	39.82	39.61	39.41	39.21	39.01	38.81	38.60	38.40	38.20	38.2
38.3	40.32	40.12	39.91	39.71	39.51	39.31	39.11	38.91	38.70	38.50	38.30	38.3
38.4	40.42	40.22	40.01	39.81	39.61	39.41	39.21	39.01	38.80	38.60	38.40	38.4
38.5	40.52	40.31	40.11	39.91	39.71	39.51	39.31	39.11	38.90	38.70	38.50	38.5
38.6	40.61	40.41	40.21	40.01	39.81	39.61	39.41	39.21	39.00	38.80	38.60	38.6
38.7	40.71	40.51	40.31	40.11	39.91	39.71	39.51	39.30	39.10	38.90	38.70	38.7
38.8	40.81	40.61	40.41	40.21	40.01	39.81	39.61	39.40	39.20	39.00	38.80	38.8
38.9	40.91	40.71	40.51	40.31	40.11	39.91	39.71	39.50	39.30	39.10	38.90	38.9
39.0	41.01	40.81	40.61	40.41	40.21	40.01	39.80	39.60	39.40	39.20	39.00	39.0
39.1	41.11	40.91	40.71	40.51	40.31	40.11	39.90	39.70	39.50	39.30	39.10	39.1
39.2	41.21	41.01	40.81	40.61	40.41	40.20	40.00	39.80	39.60	39.40	39.20	39.2
39.3	41.31	41.11	40.91	40.71	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.3
39.4	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.4
39.5	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.5
39.6	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.6
39.7	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.7
39.8	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.8
39.9	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.9
40.0	42.00	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	40.0
40.1	42.10	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	40.1
40.2	42.19	42.00	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.2
40.3	42.29	42.09	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.3
40.4	42.39	42.19	41.99	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.4
40.5	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.5
40.6	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	40.80	40.60	40.6
40.7	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.70	40.7
40.8	42.79	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	40.80	40.8
40.9	42.88	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.9
41.0	42.98	42.79	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	41.0
41.1	43.08	42.88	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	41.1
41.2	43.18	42.98	42.79	42.59	42.39	42.19	41.99	41.80	41.60	41.40	41.20	41.2
41.3	43.28	43.08	42.88	42.69	42.49	42.29	42.09	41.90	41.70	41.50	41.30	41.3
41.4	43.38	43.18	42.98	42.79	42.59	42.39	42.19	41.99	41.80	41.60	41.40	41.4
41.5	43.48	43.28	43.08	42.88	42.69	42.49	42.29	42.09	41.90	41.70	41.50	41.5
41.6	43.57	43.38	43.18	42.98	42.79	42.59	42.39	42.19	42.00	41.80	41.60	41.6
41.7	43.67	43.48	43.28	43.08	42.89	42.69	42.49	42.29	42.10	41.90	41.70	41.7
41.8	43.77	43.58	43.38	43.18	42.98	42.79	42.59	42.39	42.20	42.00	41.80	41.8
41.9	43.87	43.67	43.48	43.28	43.08	42.89	42.69	42.49	42.30	42.10	41.90	41.9
42.0	43.97	43.77	43.58	43.38	43.18	42.99	42.79	42.59	42.40	42.20	42.00	42.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
42.0	43.97	43.77	43.58	43.38	43.18	42.99	42.79	42.59	42.40	42.20	42.00	42.0
42.1	44.07	43.87	43.68	43.48	43.28	43.09	42.89	42.69	42.49	42.30	42.10	42.1
42.2	44.17	43.97	43.77	43.58	43.38	43.19	42.99	42.79	42.59	42.40	42.20	42.2
42.3	44.26	44.07	43.87	43.68	43.48	43.28	43.09	42.89	42.69	42.50	42.30	42.3
42.4	44.36	44.17	43.97	43.78	43.58	43.38	43.19	42.99	42.79	42.60	42.40	42.4
42.5	44.46	44.27	44.07	43.87	43.68	43.48	43.29	43.09	42.89	42.70	42.50	42.5
42.6	44.56	44.36	44.17	43.97	43.78	43.58	43.39	43.19	42.99	42.80	42.60	42.6
42.7	44.66	44.46	44.27	44.07	43.88	43.68	43.49	43.29	43.09	42.90	42.70	42.7
42.8	44.76	44.56	44.37	44.17	43.98	43.78	43.59	43.39	43.19	43.00	42.80	42.8
42.9	44.86	44.66	44.47	44.27	44.08	43.88	43.68	43.49	43.29	43.10	42.90	42.9
43.0	44.95	44.76	44.56	44.37	44.17	43.98	43.78	43.59	43.39	43.20	43.00	43.0
43.1	45.05	44.86	44.66	44.47	44.27	44.08	43.88	43.69	43.49	43.30	43.10	43.1
43.2	45.15	44.96	44.76	44.57	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.2
43.3	45.25	45.06	44.86	44.67	44.47	44.28	44.08	43.89	43.69	43.50	43.30	43.3
43.4	45.35	45.15	44.96	44.77	44.57	44.38	44.18	43.99	43.79	43.60	43.40	43.4
43.5	45.45	45.25	45.06	44.86	44.67	44.48	44.28	44.09	43.89	43.70	43.50	43.5
43.6	45.54	45.35	45.16	44.96	44.77	44.58	44.38	44.19	43.99	43.80	43.60	43.6
43.7	45.64	45.45	45.26	45.06	44.87	44.67	44.48	44.29	44.09	43.90	43.70	43.7
43.8	45.74	45.55	45.36	45.16	44.97	44.77	44.58	44.38	44.19	44.00	43.80	43.8
43.9	45.84	45.65	45.45	45.26	45.07	44.87	44.68	44.48	44.29	44.10	43.90	43.9
44.0	45.94	45.75	45.55	45.36	45.17	44.97	44.78	44.58	44.39	44.19	44.00	44.0
44.1	46.04	45.84	45.65	45.46	45.27	45.07	44.88	44.68	44.49	44.29	44.10	44.1
44.2	46.14	45.94	45.75	45.56	45.36	45.17	44.98	44.78	44.59	44.39	44.20	44.2
44.3	46.23	46.04	45.85	45.66	45.46	45.27	45.08	44.88	44.69	44.49	44.30	44.3
44.4	46.33	46.14	45.95	45.76	45.56	45.37	45.18	44.98	44.79	44.59	44.40	44.4
44.5	46.43	46.24	46.05	45.85	45.66	45.47	45.28	45.08	44.89	44.69	44.50	44.5
44.6	46.53	46.34	46.15	45.95	45.76	45.57	45.37	45.18	44.99	44.79	44.60	44.6
44.7	46.63	46.44	46.24	46.05	45.86	45.67	45.47	45.28	45.09	44.89	44.70	44.7
44.8	46.73	46.54	46.34	46.15	45.96	45.77	45.57	45.38	45.19	44.99	44.80	44.8
44.9	46.83	46.63	46.44	46.25	46.06	45.87	45.67	45.48	45.29	45.09	44.90	44.9
45.0	46.92	46.73	46.54	46.35	46.16	45.96	45.77	45.58	45.39	45.19	45.00	45.0
45.1	47.02	46.83	46.64	46.45	46.26	46.06	45.87	45.68	45.49	45.29	45.10	45.1
45.2	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	45.39	45.20	45.2
45.3	47.22	47.03	46.84	46.65	46.45	46.26	46.07	45.88	45.69	45.49	45.30	45.3
45.4	47.32	47.13	46.94	46.75	46.55	46.36	46.17	45.98	45.79	45.59	45.40	45.4
45.5	47.42	47.23	47.03	46.84	46.65	46.46	46.27	46.08	45.89	45.69	45.50	45.5
45.6	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.18	45.98	45.79	45.60	45.6
45.7	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.08	45.89	45.70	45.7
45.8	47.71	47.52	47.33	47.14	46.95	46.76	46.57	46.38	46.18	45.99	45.80	45.8
45.9	47.81	47.62	47.43	47.24	47.05	46.86	46.67	46.48	46.28	46.09	45.90	45.9
46.0	47.91	47.72	47.53	47.34	47.15	46.96	46.77	46.58	46.38	46.19	46.00	46.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
46.0	47.91	47.72	47.53	47.34	47.15	46.96	46.77	46.58	46.38	46.19	46.00	46.0
46.1	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.67	46.48	46.29	46.10	46.1
46.2	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.77	46.58	46.39	46.20	46.2
46.3	48.20	48.01	47.83	47.64	47.45	47.26	47.06	46.87	46.68	46.49	46.30	46.3
46.4	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	46.4
46.5	48.40	48.21	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	46.5
46.6	48.50	48.31	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.6
46.7	48.60	48.41	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	46.7
46.8	48.70	48.51	48.32	48.13	47.94	47.75	47.56	47.37	47.18	46.99	46.80	46.8
46.9	48.80	48.61	48.42	48.23	48.04	47.85	47.66	47.47	47.28	47.09	46.90	46.9
47.0	48.89	48.71	48.52	48.33	48.14	47.95	47.76	47.57	47.38	47.19	47.00	47.0
47.1	48.99	48.80	48.62	48.43	48.24	48.05	47.86	47.67	47.48	47.29	47.10	47.1
47.2	49.09	48.90	48.71	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.2
47.3	49.19	49.00	48.81	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.3
47.4	49.29	49.10	48.91	48.72	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.4
47.5	49.39	49.20	49.01	48.82	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.5
47.6	49.49	49.30	49.11	48.92	48.73	48.55	48.36	48.17	47.98	47.79	47.60	47.6
47.7	49.58	49.40	49.21	49.02	48.83	48.65	48.46	48.27	48.08	47.89	47.70	47.7
47.8	49.68	49.50	49.31	49.12	48.93	48.74	48.56	48.37	48.18	47.99	47.80	47.8
47.9	49.78	49.59	49.41	49.22	49.03	48.84	48.66	48.47	48.28	48.09	47.90	47.9
48.0	49.88	49.69	49.51	49.32	49.13	48.94	48.76	48.57	48.38	48.19	48.00	48.0
48.1	49.98	49.79	49.60	49.42	49.23	49.04	48.85	48.67	48.48	48.29	48.10	48.1
48.2	50.08	49.89	49.70	49.52	49.33	49.14	48.95	48.77	48.58	48.39	48.20	48.2
48.3	50.17	49.99	49.80	49.62	49.43	49.24	49.05	48.87	48.68	48.49	48.30	48.3
48.4	50.27	50.09	49.90	49.71	49.53	49.34	49.15	48.97	48.78	48.59	48.40	48.4
48.5	50.37	50.19	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.5
48.6	50.47	50.28	50.10	49.91	49.73	49.54	49.35	49.16	48.98	48.79	48.60	48.6
48.7	50.57	50.38	50.20	50.01	49.83	49.64	49.45	49.26	49.08	48.89	48.70	48.7
48.8	50.67	50.48	50.30	50.11	49.92	49.74	49.55	49.36	49.18	48.99	48.80	48.8
48.9	50.77	50.58	50.40	50.21	50.02	49.84	49.65	49.46	49.28	49.09	48.90	48.9
49.0	50.87	50.68	50.49	50.31	50.12	49.94	49.75	49.56	49.38	49.19	49.00	49.0
49.1	50.96	50.78	50.59	50.41	50.22	50.04	49.85	49.66	49.48	49.29	49.10	49.1
49.2	51.06	50.88	50.69	50.51	50.32	50.13	49.95	49.76	49.57	49.39	49.20	49.2
49.3	51.16	50.98	50.79	50.61	50.42	50.23	50.05	49.86	49.67	49.49	49.30	49.3
49.4	51.26	51.07	50.89	50.70	50.52	50.33	50.15	49.96	49.77	49.59	49.40	49.4
49.5	51.36	51.17	50.99	50.80	50.62	50.43	50.25	50.06	49.87	49.69	49.50	49.5
49.6	51.46	51.27	51.09	50.90	50.72	50.53	50.35	50.16	49.97	49.79	49.60	49.6
49.7	51.56	51.37	51.19	51.00	50.82	50.63	50.45	50.26	50.07	49.89	49.70	49.7
49.8	51.65	51.47	51.29	51.10	50.92	50.73	50.55	50.36	50.17	49.99	49.80	49.8
49.9	51.75	51.57	51.38	51.20	51.02	50.83	50.64	50.46	50.27	50.09	49.90	49.9
50.0	51.85	51.67	51.48	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	50.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
50.0	51.85	51.67	51.48	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	50.0
50.1	51.95	51.77	51.58	51.40	51.21	51.03	50.84	50.66	50.47	50.29	50.10	50.1
50.2	52.05	51.86	51.68	51.50	51.31	51.13	50.94	50.76	50.57	50.39	50.20	50.2
50.3	52.15	51.96	51.78	51.60	51.41	51.23	51.04	50.86	50.67	50.49	50.30	50.3
50.4	52.25	52.06	51.88	51.70	51.51	51.33	51.14	50.96	50.77	50.59	50.40	50.4
50.5	52.34	52.16	51.98	51.79	51.61	51.43	51.24	51.06	50.87	50.69	50.50	50.5
50.6	52.44	52.26	52.08	51.89	51.71	51.53	51.34	51.16	50.97	50.79	50.60	50.6
50.7	52.54	52.36	52.18	51.99	51.81	51.62	51.44	51.26	51.07	50.89	50.70	50.7
50.8	52.64	52.46	52.27	52.09	51.91	51.72	51.54	51.36	51.17	50.99	50.80	50.8
50.9	52.74	52.56	52.37	52.19	52.01	51.82	51.64	51.45	51.27	51.09	50.90	50.9
51.0	52.84	52.66	52.47	52.29	52.11	51.92	51.74	51.55	51.37	51.19	51.00	51.0
51.1	52.94	52.75	52.57	52.39	52.21	52.02	51.84	51.65	51.47	51.29	51.10	51.1
51.2	53.03	52.85	52.67	52.49	52.30	52.12	51.94	51.75	51.57	51.38	51.20	51.2
51.3	53.13	52.95	52.77	52.59	52.40	52.22	52.04	51.85	51.67	51.48	51.30	51.3
51.4	53.23	53.05	52.87	52.69	52.50	52.32	52.14	51.95	51.77	51.58	51.40	51.4
51.5	53.33	53.15	52.97	52.78	52.60	52.42	52.24	52.05	51.87	51.68	51.50	51.5
51.6	53.43	53.25	53.07	52.88	52.70	52.52	52.34	52.15	51.97	51.78	51.60	51.6
51.7	53.53	53.35	53.17	52.98	52.80	52.62	52.44	52.25	52.07	51.88	51.70	51.7
51.8	53.63	53.45	53.26	53.08	52.90	52.72	52.53	52.35	52.17	51.98	51.80	51.8
51.9	53.73	53.54	53.36	53.18	53.00	52.82	52.63	52.45	52.27	52.08	51.90	51.9
52.0	53.82	53.64	53.46	53.28	53.10	52.92	52.73	52.55	52.37	52.18	52.00	52.0
52.1	53.92	53.74	53.56	53.38	53.20	53.02	52.83	52.65	52.47	52.28	52.10	52.1
52.2	54.02	53.84	53.66	53.48	53.30	53.11	52.93	52.75	52.57	52.38	52.20	52.2
52.3	54.12	53.94	53.76	53.58	53.40	53.21	53.03	52.85	52.67	52.48	52.30	52.3
52.4	54.22	54.04	53.86	53.68	53.50	53.31	53.13	52.95	52.77	52.58	52.40	52.4
52.5	54.32	54.14	53.96	53.78	53.59	53.41	53.23	53.05	52.87	52.68	52.50	52.5
52.6	54.42	54.24	54.06	53.88	53.69	53.51	53.33	53.15	52.97	52.78	52.60	52.6
52.7	54.52	54.34	54.15	53.97	53.79	53.61	53.43	53.25	53.07	52.88	52.70	52.7
52.8	54.61	54.43	54.25	54.07	53.89	53.71	53.53	53.35	53.17	52.98	52.80	52.8
52.9	54.71	54.53	54.35	54.17	53.99	53.81	53.63	53.45	53.27	53.08	52.90	52.9
53.0	54.81	54.63	54.45	54.27	54.09	53.91	53.73	53.55	53.36	53.18	53.00	53.0
53.1	54.91	54.73	54.55	54.37	54.19	54.01	53.83	53.65	53.46	53.28	53.10	53.1
53.2	55.01	54.83	54.65	54.47	54.29	54.11	53.93	53.75	53.56	53.38	53.20	53.2
53.3	55.11	54.93	54.75	54.57	54.39	54.21	54.03	53.85	53.66	53.48	53.30	53.3
53.4	55.21	55.03	54.85	54.67	54.49	54.31	54.13	53.95	53.76	53.58	53.40	53.4
53.5	55.31	55.13	54.95	54.77	54.59	54.41	54.23	54.04	53.86	53.68	53.50	53.5
53.6	55.40	55.23	55.05	54.87	54.69	54.51	54.33	54.14	53.96	53.78	53.60	53.6
53.7	55.50	55.32	55.14	54.97	54.79	54.61	54.42	54.24	54.06	53.88	53.70	53.7
53.8	55.60	55.42	55.24	55.06	54.88	54.70	54.52	54.34	54.16	53.98	53.80	53.8
53.9	55.70	55.52	55.34	55.16	54.98	54.80	54.62	54.44	54.26	54.08	53.90	53.9
54.0	55.80	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.36	54.18	54.00	54.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
54.0	55.80	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.36	54.18	54.00	54.0
54.1	55.90	55.72	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.28	54.10	54.1
54.2	56.00	55.82	55.64	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.20	54.2
54.3	56.10	55.92	55.74	55.56	55.38	55.20	55.02	54.84	54.66	54.48	54.30	54.3
54.4	56.19	56.02	55.84	55.66	55.48	55.30	55.12	54.94	54.76	54.58	54.40	54.4
54.5	56.29	56.12	55.94	55.76	55.58	55.40	55.22	55.04	54.86	54.68	54.50	54.5
54.6	56.39	56.21	56.04	55.86	55.68	55.50	55.32	55.14	54.96	54.78	54.60	54.6
54.7	56.49	56.31	56.14	55.96	55.78	55.60	55.42	55.24	55.06	54.88	54.70	54.7
54.8	56.59	56.41	56.23	56.06	55.88	55.70	55.52	55.34	55.16	54.98	54.80	54.8
54.9	56.69	56.51	56.33	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.90	54.9
55.0	56.79	56.61	56.43	56.25	56.08	55.90	55.72	55.54	55.36	55.18	55.00	55.0
55.1	56.89	56.71	56.53	56.35	56.18	56.00	55.82	55.64	55.46	55.28	55.10	55.1
55.2	56.98	56.81	56.63	56.45	56.27	56.10	55.92	55.74	55.56	55.38	55.20	55.2
55.3	57.08	56.91	56.73	56.55	56.37	56.20	56.02	55.84	55.66	55.48	55.30	55.3
55.4	57.18	57.01	56.83	56.65	56.47	56.30	56.12	55.94	55.76	55.58	55.40	55.4
55.5	57.28	57.10	56.93	56.75	56.57	56.39	56.22	56.04	55.86	55.68	55.50	55.5
55.6	57.38	57.20	57.03	56.85	56.67	56.49	56.32	56.14	55.96	55.78	55.60	55.6
55.7	57.48	57.30	57.13	56.95	56.77	56.59	56.42	56.24	56.06	55.88	55.70	55.7
55.8	57.58	57.40	57.22	57.05	56.87	56.69	56.51	56.34	56.16	55.98	55.80	55.8
55.9	57.68	57.50	57.32	57.15	56.97	56.79	56.61	56.44	56.26	56.08	55.90	55.9
56.0	57.77	57.60	57.42	57.25	57.07	56.89	56.71	56.54	56.36	56.18	56.00	56.0
56.1	57.87	57.70	57.52	57.35	57.17	56.99	56.81	56.64	56.46	56.28	56.10	56.1
56.2	57.97	57.80	57.62	57.44	57.27	57.09	56.91	56.74	56.56	56.38	56.20	56.2
56.3	58.07	57.90	57.72	57.54	57.37	57.19	57.01	56.83	56.66	56.48	56.30	56.3
56.4	58.17	57.99	57.82	57.64	57.47	57.29	57.11	56.93	56.76	56.58	56.40	56.4
56.5	58.27	58.09	57.92	57.74	57.57	57.39	57.21	57.03	56.86	56.68	56.50	56.5
56.6	58.37	58.19	58.02	57.84	57.66	57.49	57.31	57.13	56.96	56.78	56.60	56.6
56.7	58.47	58.29	58.12	57.94	57.76	57.59	57.41	57.23	57.06	56.88	56.70	56.7
56.8	58.57	58.39	58.22	58.04	57.86	57.69	57.51	57.33	57.16	56.98	56.80	56.8
56.9	58.66	58.49	58.31	58.14	57.96	57.79	57.61	57.43	57.26	57.08	56.90	56.9
57.0	58.76	58.59	58.41	58.24	58.06	57.89	57.71	57.53	57.36	57.18	57.00	57.0
57.1	58.86	58.69	58.51	58.34	58.16	57.99	57.81	57.63	57.46	57.28	57.10	57.1
57.2	58.96	58.79	58.61	58.44	58.26	58.08	57.91	57.73	57.55	57.38	57.20	57.2
57.3	59.06	58.89	58.71	58.54	58.36	58.18	58.01	57.83	57.65	57.48	57.30	57.3
57.4	59.16	58.98	58.81	58.63	58.46	58.28	58.11	57.93	57.75	57.58	57.40	57.4
57.5	59.26	59.08	58.91	58.73	58.56	58.38	58.21	58.03	57.85	57.68	57.50	57.5
57.6	59.36	59.18	59.01	58.83	58.66	58.48	58.31	58.13	57.95	57.78	57.60	57.6
57.7	59.46	59.28	59.11	58.93	58.76	58.58	58.41	58.23	58.05	57.88	57.70	57.7
57.8	59.55	59.38	59.21	59.03	58.86	58.68	58.51	58.33	58.15	57.98	57.80	57.8
57.9	59.65	59.48	59.30	59.13	58.96	58.78	58.61	58.43	58.25	58.08	57.90	57.9
58.0	59.75	59.58	59.40	59.23	59.06	58.88	58.70	58.53	58.35	58.18	58.00	58.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
58.0	59.75	59.58	59.40	59.23	59.06	58.88	58.70	58.53	58.35	58.18	58.00	58.0
58.1	59.85	59.68	59.50	59.33	59.15	58.98	58.80	58.63	58.45	58.28	58.10	58.1
58.2	59.95	59.78	59.60	59.43	59.25	59.08	58.90	58.73	58.55	58.38	58.20	58.2
58.3	60.05	59.87	59.70	59.53	59.35	59.18	59.00	58.83	58.65	58.48	58.30	58.3
58.4	60.15	59.97	59.80	59.63	59.45	59.28	59.10	58.93	58.75	58.58	58.40	58.4
58.5	60.25	60.07	59.90	59.73	59.55	59.38	59.20	59.03	58.85	58.68	58.50	58.5
58.6	60.34	60.17	60.00	59.82	59.65	59.48	59.30	59.13	58.95	58.78	58.60	58.6
58.7	60.44	60.27	60.10	59.92	59.75	59.58	59.40	59.23	59.05	58.88	58.70	58.7
58.8	60.54	60.37	60.20	60.02	59.85	59.68	59.50	59.33	59.15	58.98	58.80	58.8
58.9	60.64	60.47	60.30	60.12	59.95	59.77	59.60	59.43	59.25	59.08	58.90	58.9
59.0	60.74	60.57	60.39	60.22	60.05	59.87	59.70	59.53	59.35	59.18	59.00	59.0
59.1	60.84	60.67	60.49	60.32	60.15	59.97	59.80	59.63	59.45	59.28	59.10	59.1
59.2	60.94	60.77	60.59	60.42	60.25	60.07	59.90	59.72	59.55	59.38	59.20	59.2
59.3	61.04	60.86	60.69	60.52	60.35	60.17	60.00	59.82	59.65	59.48	59.30	59.3
59.4	61.14	60.96	60.79	60.62	60.45	60.27	60.10	59.92	59.75	59.58	59.40	59.4
59.5	61.23	61.06	60.89	60.72	60.54	60.37	60.20	60.02	59.85	59.68	59.50	59.5
59.6	61.33	61.16	60.99	60.82	60.64	60.47	60.30	60.12	59.95	59.77	59.60	59.6
59.7	61.43	61.26	61.09	60.92	60.74	60.57	60.40	60.22	60.05	59.87	59.70	59.7
59.8	61.53	61.36	61.19	61.02	60.84	60.67	60.50	60.32	60.15	59.97	59.80	59.8
59.9	61.63	61.46	61.29	61.11	60.94	60.77	60.60	60.42	60.25	60.07	59.90	59.9
60.0	61.73	61.56	61.39	61.21	61.04	60.87	60.70	60.52	60.35	60.17	60.00	60.0
60.1	61.83	61.66	61.49	61.31	61.14	60.97	60.80	60.62	60.45	60.27	60.10	60.1
60.2	61.93	61.76	61.58	61.41	61.24	61.07	60.89	60.72	60.55	60.37	60.20	60.2
60.3	62.03	61.85	61.68	61.51	61.34	61.17	60.99	60.82	60.65	60.47	60.30	60.3
60.4	62.12	61.95	61.78	61.61	61.44	61.27	61.09	60.92	60.75	60.57	60.40	60.4
60.5	62.22	62.05	61.88	61.71	61.54	61.37	61.19	61.02	60.85	60.67	60.50	60.5
60.6	62.32	62.15	61.98	61.81	61.64	61.47	61.29	61.12	60.95	60.77	60.60	60.6
60.7	62.42	62.25	62.08	61.91	61.74	61.56	61.39	61.22	61.05	60.87	60.70	60.7
60.8	62.52	62.35	62.18	62.01	61.84	61.66	61.49	61.32	61.15	60.97	60.80	60.8
60.9	62.62	62.45	62.28	62.11	61.94	61.76	61.59	61.42	61.25	61.07	60.90	60.9
61.0	62.72	62.55	62.38	62.21	62.03	61.86	61.69	61.52	61.35	61.17	61.00	61.0
61.1	62.82	62.65	62.48	62.31	62.13	61.96	61.79	61.62	61.45	61.27	61.10	61.1
61.2	62.92	62.75	62.58	62.40	62.23	62.06	61.89	61.72	61.55	61.37	61.20	61.2
61.3	63.01	62.84	62.67	62.50	62.33	62.16	61.99	61.82	61.65	61.47	61.30	61.3
61.4	63.11	62.94	62.77	62.60	62.43	62.26	62.09	61.92	61.75	61.57	61.40	61.4
61.5	63.21	63.04	62.87	62.70	62.53	62.36	62.19	62.02	61.85	61.67	61.50	61.5
61.6	63.31	63.14	62.97	62.80	62.63	62.46	62.29	62.12	61.94	61.77	61.60	61.6
61.7	63.41	63.24	63.07	62.90	62.73	62.56	62.39	62.22	62.04	61.87	61.70	61.7
61.8	63.51	63.34	63.17	63.00	62.83	62.66	62.49	62.32	62.14	61.07	61.80	61.8
61.9	63.61	63.44	63.27	63.10	62.93	62.76	62.59	62.42	62.24	62.07	61.90	61.9
62.0	63.71	63.54	63.37	63.20	63.03	62.86	62.69	62.52	62.34	62.17	62.00	62.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
62.0	63.71	63.54	63.37	63.20	63.03	62.86	62.69	62.52	62.34	62.17	62.00	62.0
62.1	63.81	63.64	63.47	63.30	63.13	62.96	62.79	62.62	62.44	62.27	62.10	62.1
62.2	63.90	63.74	63.57	63.40	63.23	63.06	62.89	62.71	62.54	62.37	62.20	62.2
62.3	64.00	63.83	63.67	63.50	63.33	63.16	62.99	62.81	62.64	62.47	62.30	62.3
62.4	64.10	63.93	63.76	63.60	63.43	63.26	63.08	62.91	62.74	62.57	62.40	62.4
62.5	64.20	64.03	63.86	63.69	63.52	63.35	63.18	63.01	62.84	62.67	62.50	62.5
62.6	64.30	64.13	63.96	63.79	63.62	63.45	63.28	63.11	62.94	62.77	62.60	62.6
62.7	64.40	64.23	64.06	63.89	63.72	63.55	63.38	63.21	63.04	62.87	62.70	62.7
62.8	64.50	64.33	64.16	63.99	63.82	63.65	63.48	63.31	63.14	62.97	62.80	62.8
62.9	64.60	64.43	64.26	64.09	63.92	63.75	63.58	63.41	63.24	63.07	62.90	62.9
63.0	64.70	64.53	64.36	64.19	64.02	63.85	63.68	63.51	63.34	63.17	63.00	63.0
63.1	64.79	64.63	64.46	64.29	64.12	63.95	63.78	63.61	63.44	63.27	63.10	63.1
63.2	64.89	64.73	64.56	64.39	64.22	64.05	63.88	63.71	63.54	63.37	63.20	63.2
63.3	64.99	64.82	64.66	64.49	64.32	64.15	63.98	63.81	63.64	63.47	63.30	63.3
63.4	65.09	64.92	64.76	64.59	64.42	64.25	64.08	63.91	63.74	63.57	63.40	63.4
63.5	65.19	65.02	64.85	64.69	64.52	64.35	64.18	64.01	63.84	63.67	63.50	63.5
63.6	65.29	65.12	64.95	64.79	64.62	64.45	64.28	64.11	63.94	63.77	63.60	63.6
63.7	65.39	65.22	65.05	64.88	64.72	64.55	64.38	64.21	64.04	63.87	63.70	63.7
63.8	65.49	65.32	65.15	64.98	64.82	64.65	64.48	64.31	64.14	63.97	63.80	63.8
63.9	65.58	65.42	65.25	65.08	64.92	64.75	64.58	64.41	64.24	64.07	63.90	63.9
64.0	65.68	65.52	65.35	65.18	65.01	64.85	64.68	64.51	64.34	64.17	64.00	64.0
64.1	65.78	65.62	65.45	65.28	65.11	64.95	64.78	64.61	64.44	64.27	64.10	64.1
64.2	65.88	65.71	65.55	65.38	65.21	65.05	64.88	64.71	64.54	64.37	64.20	64.2
64.3	65.98	65.81	65.65	65.48	65.31	65.14	64.98	64.81	64.64	64.47	64.30	64.3
64.4	66.08	65.91	65.75	65.58	65.41	65.24	65.08	64.91	64.74	64.57	64.40	64.4
64.5	66.18	66.01	65.85	65.68	65.51	65.34	65.18	65.01	64.84	64.67	64.50	64.5
64.6	66.28	66.11	65.94	65.78	65.61	65.44	65.27	65.11	64.94	64.77	64.60	64.6
64.7	66.38	66.21	66.04	65.88	65.71	65.54	65.37	65.21	65.04	64.87	64.70	64.7
64.8	66.47	66.31	66.14	65.98	65.81	65.64	65.47	65.31	65.14	64.97	64.80	64.8
64.9	66.57	66.41	66.24	66.08	65.91	65.74	65.57	65.41	65.24	65.07	64.90	64.9
65.0	66.67	66.51	66.34	66.17	66.01	65.84	65.67	65.51	65.34	65.17	65.00	65.0
65.1	66.77	66.61	66.44	66.27	66.11	65.94	65.77	65.61	65.44	65.27	65.10	65.1
65.2	66.87	66.70	66.54	66.37	66.21	66.04	65.87	65.70	65.54	65.37	65.20	65.2
65.3	66.97	66.80	66.64	66.47	66.31	66.14	65.97	65.80	65.64	65.47	65.30	65.3
65.4	67.07	66.90	66.74	66.57	66.40	66.24	66.07	65.90	65.74	65.57	65.40	65.4
65.5	67.17	67.00	66.84	66.67	66.50	66.34	66.17	66.00	65.84	65.67	65.50	65.5
65.6	67.27	67.10	66.94	66.77	66.60	66.44	66.27	66.10	65.94	65.77	65.60	65.6
65.7	67.36	67.20	67.03	66.87	66.70	66.54	66.37	66.20	66.04	65.87	65.70	65.7
65.8	67.46	67.30	67.13	66.97	66.80	66.64	66.47	66.30	66.14	65.97	65.80	65.8
65.9	67.56	67.40	67.23	67.07	66.90	66.74	66.57	66.40	66.24	66.07	65.90	65.9
66.0	67.66	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.33	66.17	66.00	66.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
66.0	67.66	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.33	66.17	66.00	66.0
66.1	67.76	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.43	66.27	66.10	66.1
66.2	67.86	67.69	67.53	67.36	67.20	67.03	66.87	66.70	66.53	66.37	66.20	66.2
66.3	67.96	67.79	67.63	67.46	67.30	67.13	66.97	66.80	66.63	66.47	66.30	66.3
66.4	68.06	67.89	67.73	67.56	67.40	67.23	67.07	66.90	66.73	66.57	66.40	66.4
66.5	68.15	67.99	67.83	67.66	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.5
66.6	68.25	68.09	67.93	67.76	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.6
66.7	68.35	68.19	68.02	67.86	67.70	67.53	67.37	67.20	67.03	66.87	66.70	66.7
66.8	68.45	68.29	68.12	67.96	67.79	67.63	67.46	67.30	67.13	66.97	66.80	66.8
66.9	68.55	68.39	68.22	68.06	67.89	67.73	67.56	67.40	67.23	67.07	66.90	66.9
67.0	68.65	68.49	68.32	68.16	67.99	67.83	67.66	67.50	67.33	67.17	67.00	67.0
67.1	68.75	68.58	68.42	68.26	68.09	67.93	67.76	67.60	67.43	67.27	67.10	67.1
67.2	68.85	68.68	68.52	68.36	68.19	68.03	67.86	67.70	67.53	67.37	67.20	67.2
67.3	68.95	68.78	68.62	68.46	68.29	68.13	67.96	67.80	67.63	67.47	67.30	67.3
67.4	69.04	68.88	68.72	68.55	68.39	68.23	68.06	67.90	67.73	67.57	67.40	67.4
67.5	69.14	68.98	68.82	68.65	68.49	68.33	68.16	68.00	67.83	67.67	67.50	67.5
67.6	69.24	69.08	68.92	68.75	68.59	68.43	68.26	68.10	67.93	67.77	67.60	67.6
67.7	69.34	69.18	69.02	68.85	68.69	68.52	68.36	68.20	68.03	67.87	67.70	67.7
67.8	69.44	69.28	69.11	68.95	68.79	68.62	68.46	68.30	68.13	67.97	67.80	67.8
67.9	69.54	69.38	69.21	69.05	68.89	68.72	68.56	68.40	68.23	68.07	67.90	67.9
68.0	69.64	69.47	69.31	69.15	68.99	68.82	68.66	68.49	68.33	68.17	68.00	68.0
68.1	69.74	69.57	69.41	69.25	69.09	68.92	68.76	68.59	68.43	68.27	68.10	68.1
68.2	69.83	69.67	69.51	69.35	69.18	69.02	68.86	68.69	68.53	68.37	68.20	68.2
68.3	69.93	69.77	69.61	69.45	69.28	69.12	68.96	68.79	68.63	68.46	68.30	68.3
68.4	70.03	69.87	69.71	69.55	69.38	69.22	69.06	68.89	68.73	68.56	68.40	68.4
68.5	70.13	69.97	69.81	69.65	69.48	69.32	69.16	68.99	68.83	68.66	68.50	68.5
68.6	70.23	70.07	69.91	69.74	69.58	69.42	69.26	69.09	68.93	68.76	68.60	68.6
68.7	70.33	70.17	70.01	69.84	69.68	69.52	69.36	69.19	69.03	68.86	68.70	68.7
68.8	70.43	70.27	70.10	69.94	69.78	69.62	69.46	69.29	69.13	68.96	68.80	68.8
68.9	70.53	70.37	70.20	70.04	69.88	69.72	69.55	69.39	69.23	69.06	68.90	68.9
69.0	70.62	70.46	70.30	70.14	69.98	69.82	69.65	69.49	69.33	69.16	69.00	69.0
69.1	70.72	70.56	70.40	70.24	70.08	69.92	69.75	69.59	69.43	69.26	69.10	69.1
69.2	70.82	70.66	70.50	70.34	70.18	70.02	69.85	69.69	69.53	69.36	69.20	69.2
69.3	70.92	70.76	70.60	70.44	70.28	70.11	69.95	69.79	69.63	69.46	69.30	69.3
69.4	71.02	70.86	70.70	70.54	70.38	70.21	70.05	69.89	69.73	69.56	69.40	69.4
69.5	71.12	70.96	70.80	70.64	70.48	70.31	70.15	69.99	69.83	69.66	69.50	69.5
69.6	71.22	71.06	70.90	70.74	70.57	70.41	70.25	70.09	69.93	69.76	69.60	69.6
69.7	71.32	71.16	71.00	70.84	70.67	70.51	70.35	70.19	70.03	69.86	69.70	69.7
69.8	71.42	71.26	71.09	70.93	70.77	70.61	70.45	70.29	70.13	69.96	69.80	69.8
69.9	71.51	71.35	71.19	71.03	70.87	70.71	70.55	70.39	70.23	70.06	69.90	69.9
70.0	71.61	71.45	71.29	71.13	70.97	70.81	70.65	70.49	70.33	70.16	70.00	70.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
70.0	71.61	71.45	71.29	71.13	70.97	70.81	70.65	70.49	70.33	70.16	70.00	70.0
70.1	71.71	71.55	71.39	71.23	71.07	70.91	70.75	70.59	70.42	70.26	70.10	70.1
70.2	71.81	71.65	71.49	71.33	71.17	71.01	70.85	70.69	70.52	70.36	70.20	70.2
70.3	71.91	71.75	71.59	71.43	71.27	71.11	70.95	70.79	70.62	70.46	70.30	70.3
70.4	72.01	71.85	71.69	71.53	71.37	71.21	71.05	70.89	70.72	70.56	70.40	70.4
70.5	72.11	71.95	71.79	71.63	71.47	71.31	71.15	70.99	70.82	70.66	70.50	70.5
70.6	72.20	72.05	71.89	71.73	71.57	71.41	71.25	71.09	70.92	70.76	70.60	70.6
70.7	72.30	72.14	71.99	71.83	71.67	71.51	71.35	71.18	71.02	70.86	70.70	70.7
70.8	72.40	72.24	72.08	71.93	71.77	71.61	71.45	71.28	71.12	70.96	70.80	70.8
70.9	72.50	72.34	72.18	72.02	71.86	71.70	71.54	71.38	71.22	71.06	70.90	70.9
71.0	72.60	72.44	72.28	72.12	71.96	71.80	71.64	71.48	71.32	71.16	71.00	71.0
71.1	72.70	72.54	72.38	72.22	72.06	71.90	71.74	71.58	71.42	71.26	71.10	71.1
71.2	72.80	72.64	72.48	72.32	72.16	72.00	71.84	71.68	71.52	71.36	71.20	71.2
71.3	72.90	72.74	72.58	72.42	72.26	72.10	71.94	71.78	71.62	71.46	71.30	71.3
71.4	72.99	72.84	72.68	72.52	72.36	72.20	72.04	71.88	71.72	71.56	71.40	71.4
71.5	73.09	72.94	72.78	72.62	72.46	72.30	72.14	71.98	71.82	71.66	71.50	71.5
71.6	73.19	73.03	72.88	72.72	72.56	72.40	72.24	72.08	71.92	71.76	71.60	71.6
71.7	73.29	73.13	72.98	72.82	72.66	72.50	72.34	72.18	72.02	71.86	71.70	71.7
71.8	73.39	73.23	73.07	72.92	72.76	72.60	72.44	72.28	72.12	71.96	71.80	71.8
71.9	73.49	73.33	73.17	73.02	72.86	72.70	72.54	72.38	72.22	72.06	71.90	71.9
72.0	73.59	73.43	73.27	73.11	72.96	72.80	72.64	72.48	72.32	72.16	72.00	72.0
72.1	73.69	73.53	73.37	73.21	73.06	72.90	72.74	72.58	72.42	72.26	72.10	72.1
72.2	73.78	73.63	73.47	73.31	73.15	73.00	72.84	72.68	72.52	72.36	72.20	72.2
72.3	73.88	73.73	73.57	73.41	73.25	73.10	72.94	72.78	72.62	72.46	72.30	72.3
72.4	73.98	73.83	73.67	73.51	73.35	73.20	73.04	72.88	72.72	72.56	72.40	72.4
72.5	74.08	73.92	73.77	73.61	73.45	73.29	73.14	72.98	72.82	72.66	72.50	72.5
72.6	74.18	74.02	73.87	73.71	73.55	73.39	73.24	73.08	72.92	72.76	72.60	72.6
72.7	74.28	74.12	73.97	73.81	73.65	73.49	73.34	73.18	73.02	72.86	72.70	72.7
72.8	74.38	74.22	74.06	73.91	73.75	73.59	73.43	73.28	73.12	72.96	72.80	72.8
72.9	74.48	74.32	74.16	74.01	73.85	73.69	73.53	73.38	73.22	73.06	72.90	72.9
73.0	74.57	74.42	74.26	74.11	73.95	73.79	73.63	73.48	73.32	73.16	73.00	73.0
73.1	74.67	74.52	74.36	74.20	74.05	73.89	73.73	73.58	73.42	73.26	73.10	73.1
73.2	74.77	74.62	74.46	74.30	74.15	73.99	73.83	73.68	73.52	73.36	73.20	73.2
73.3	74.87	74.72	74.56	74.40	74.25	74.09	73.93	73.77	73.62	73.46	73.30	73.3
73.4	74.97	74.81	74.66	74.50	74.35	74.19	74.03	73.87	73.72	73.56	73.40	73.4
73.5	75.07	74.91	74.76	74.60	74.44	74.29	74.13	73.97	73.82	73.66	73.50	73.5
73.6	75.17	75.01	74.86	74.70	74.54	74.39	74.23	74.07	73.92	73.76	73.60	73.6
73.7	75.27	75.11	74.96	74.80	74.64	74.49	74.33	74.17	74.02	73.86	73.70	73.7
73.8	75.36	75.21	75.05	74.90	74.74	74.59	74.43	74.27	74.12	73.96	73.80	73.8
73.9	75.46	75.31	75.15	75.00	74.84	74.69	74.53	74.37	74.22	74.06	73.90	73.9
74.0	75.56	75.41	75.25	75.10	74.94	74.79	74.63	74.47	74.32	74.16	74.00	74.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
74.0	75.56	75.41	75.25	75.10	74.94	74.79	74.63	74.47	74.32	74.16	74.00	74.0
74.1	75.66	75.51	75.35	75.20	75.04	74.88	74.73	74.57	74.41	74.26	74.10	74.1
74.2	75.76	75.60	75.45	75.29	75.14	74.98	74.83	74.67	74.51	74.36	74.20	74.2
74.3	75.86	75.70	75.55	75.39	75.24	75.08	74.93	74.77	74.61	74.46	74.30	74.3
74.4	75.96	75.80	75.65	75.49	75.34	75.18	75.03	74.87	74.71	74.56	74.40	74.4
74.5	76.05	75.90	75.75	75.59	75.44	75.28	75.13	74.97	74.81	74.66	74.50	74.5
74.6	76.15	76.00	75.85	75.69	75.54	75.38	75.23	75.07	74.91	74.76	74.60	74.6
74.7	76.25	76.10	75.94	75.79	75.64	75.48	75.33	75.17	75.01	74.86	74.70	74.7
74.8	76.35	76.20	76.04	75.89	75.73	75.58	75.42	75.27	75.11	74.96	74.80	74.8
74.9	76.45	76.30	76.14	75.99	75.83	75.68	75.52	75.37	75.21	75.06	74.90	74.9
75.0	76.55	76.40	76.24	76.09	75.93	75.78	75.62	75.47	75.31	75.16	75.00	75.0
75.1	76.65	76.49	76.34	76.19	76.03	75.88	75.72	75.57	75.41	75.26	75.10	75.1
75.2	76.75	76.59	76.44	76.29	76.13	75.98	75.82	75.67	75.51	75.36	75.20	75.2
75.3	76.84	76.69	76.54	76.38	76.23	76.08	75.92	75.77	75.61	75.46	75.30	75.3
75.4	76.94	76.79	76.64	76.48	76.33	76.18	76.02	75.87	75.71	75.56	75.40	75.4
75.5	77.04	76.89	76.74	76.58	76.43	76.28	76.12	75.97	75.81	75.66	75.50	75.5
75.6	77.14	76.99	76.84	76.68	76.53	76.37	76.22	76.07	75.91	75.76	75.60	75.6
75.7	77.24	77.09	76.93	75.78	76.63	76.47	76.32	76.17	76.01	75.86	75.70	75.7
75.8	77.34	77.19	77.03	75.88	76.73	76.57	76.42	76.26	76.11	75.96	75.80	75.8
75.9	77.44	77.28	77.13	76.98	76.83	76.67	76.52	76.36	76.21	76.06	75.90	75.9
76.0	77.53	77.38	77.23	77.08	76.93	76.77	76.62	76.46	76.31	76.16	76.00	76.0
76.1	77.63	77.48	77.33	77.18	77.02	76.87	76.72	76.56	76.41	76.25	76.10	76.1
76.2	77.73	77.58	77.43	77.28	77.12	76.97	76.82	76.66	76.51	76.35	76.20	76.2
76.3	77.83	77.68	77.53	77.38	77.22	77.07	76.92	76.76	76.61	76.45	76.30	76.3
76.4	77.93	77.78	77.63	77.47	77.32	77.17	77.02	76.86	76.71	76.55	76.40	76.4
76.5	78.03	77.88	77.73	77.57	77.42	77.27	77.12	76.96	76.81	76.65	76.50	76.5
76.6	78.13	77.98	77.82	77.67	77.52	77.37	77.21	77.06	76.91	76.75	76.60	76.6
76.7	78.23	78.07	77.92	77.77	77.62	77.47	77.31	77.16	77.01	76.85	76.70	76.7
76.8	78.32	78.17	78.02	77.87	77.72	77.57	77.41	77.26	77.11	76.95	76.80	76.8
76.9	78.42	78.27	78.12	77.97	77.82	77.67	77.51	77.36	77.21	77.05	76.90	76.9
77.0	78.52	78.37	78.22	78.07	77.92	77.76	77.61	77.46	77.31	77.15	77.00	77.0
77.1	78.62	78.47	78.32	78.17	78.02	77.86	77.71	77.56	77.41	77.25	77.10	77.1
77.2	78.72	78.57	78.42	78.27	78.12	77.96	77.81	77.66	77.51	77.35	77.20	77.2
77.3	78.82	78.67	78.52	78.37	78.21	78.06	77.91	77.76	77.61	77.45	77.30	77.3
77.4	78.92	78.77	78.62	78.46	78.31	78.16	78.01	77.86	77.71	77.55	77.40	77.4
77.5	79.01	78.86	78.71	78.56	78.41	78.26	78.11	77.96	77.81	77.65	77.50	77.5
77.6	79.11	78.96	78.81	78.66	78.51	78.36	78.21	78.06	77.91	77.75	77.60	77.6
77.7	79.21	79.06	78.91	78.76	78.61	78.46	78.31	78.16	78.01	77.85	77.70	77.7
77.8	79.31	79.16	79.01	78.86	78.71	78.56	78.41	78.26	78.10	77.95	77.80	77.8
77.9	79.41	79.26	79.11	78.96	78.81	78.66	78.51	78.36	78.20	78.05	77.90	77.9
78.0	79.51	79.36	79.21	79.06	78.91	78.76	78.61	78.46	78.30	78.15	78.00	78.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
78.0	79.51	79.36	79.21	79.06	78.91	78.76	78.61	78.46	78.30	78.15	78.00	78.0
78.1	79.61	79.46	79.31	79.16	79.01	78.86	78.71	78.56	78.40	78.25	78.10	78.1
78.2	79.70	79.56	79.41	79.26	79.11	78.96	78.81	78.65	78.50	78.35	78.20	78.2
78.3	79.80	79.65	79.51	79.36	79.21	79.06	78.91	78.75	78.60	78.45	78.30	78.3
78.4	79.90	79.75	79.60	79.45	79.31	79.16	79.00	78.85	78.70	78.55	78.40	78.4
78.5	80.00	79.85	79.70	79.55	79.40	79.25	79.10	78.95	78.80	78.65	78.50	78.5
78.6	80.10	79.95	79.80	79.65	79.50	79.35	79.20	79.05	78.90	78.75	78.60	78.6
78.7	80.20	80.05	79.90	79.75	79.60	79.45	79.30	79.15	79.00	78.85	78.70	78.7
78.8	80.30	80.15	80.00	79.85	79.70	79.55	79.40	79.25	79.10	78.95	78.80	78.8
78.9	80.39	80.25	80.10	79.95	79.80	79.65	79.50	79.30	79.20	79.05	78.90	78.9
79.0	80.49	80.35	80.20	80.05	79.90	79.75	79.60	79.45	79.30	79.15	79.00	79.0
79.1	80.59	80.44	80.30	80.15	80.00	79.85	79.70	79.55	79.40	79.25	79.10	79.1
79.2	80.69	80.54	80.39	80.25	80.10	79.95	79.80	79.65	79.50	79.35	79.20	79.2
79.3	80.79	80.64	80.49	80.35	80.20	80.05	79.90	79.75	79.60	79.45	79.30	79.3
79.4	80.89	80.74	80.59	80.44	80.30	80.15	80.00	79.85	79.70	79.55	79.40	79.4
79.5	80.99	80.84	80.69	80.54	80.40	80.25	80.10	79.95	79.80	79.65	79.50	79.5
79.6	81.08	80.94	80.79	80.64	80.49	80.35	80.20	80.05	79.90	79.75	79.60	79.6
79.7	81.18	81.04	80.89	80.74	80.59	80.45	80.30	80.15	80.00	79.85	79.70	79.7
79.8	81.28	81.13	80.99	80.84	80.69	80.54	80.40	80.25	80.10	79.95	79.80	79.8
79.9	81.38	81.23	81.09	80.94	80.79	80.64	80.50	80.35	80.20	80.05	79.90	79.9
80.0	81.48	81.33	81.18	81.04	80.89	80.74	80.60	80.45	80.30	80.15	80.00	80.0
80.1	81.58	81.43	81.28	81.14	80.99	80.84	80.69	80.55	80.40	80.25	80.10	80.1
80.2	81.67	81.53	81.38	81.24	81.09	80.94	80.79	80.65	80.50	80.35	80.20	80.2
80.3	81.77	81.63	81.48	81.33	81.19	81.04	80.89	80.75	80.60	80.45	80.30	80.3
80.4	81.87	81.73	81.58	81.43	81.29	81.14	80.99	80.85	80.70	80.55	80.40	80.4
80.5	81.97	81.82	81.68	81.53	81.39	81.24	81.09	80.94	80.80	80.65	80.50	80.5
80.6	82.07	81.92	81.78	81.63	81.49	81.34	81.19	81.04	80.90	80.75	80.60	80.6
80.7	82.17	82.02	81.88	81.73	81.58	81.44	81.29	81.14	81.00	80.85	80.70	80.7
80.8	82.26	82.12	81.97	81.83	81.68	81.54	81.39	81.24	81.10	80.95	80.80	80.8
80.9	82.36	82.22	82.07	81.93	81.78	81.64	81.49	81.34	81.20	81.05	80.90	80.9
81.0	82.46	82.32	82.17	82.03	81.88	81.74	81.59	81.44	81.30	81.15	81.00	81.0
81.1	82.56	82.42	82.27	82.13	81.98	81.83	81.69	81.54	81.39	81.25	81.10	81.1
81.2	82.66	82.51	82.37	82.22	82.08	81.93	81.79	81.64	81.49	81.35	81.20	81.2
81.3	82.76	82.61	82.47	82.32	82.18	82.03	81.89	81.74	81.59	81.45	81.30	81.3
81.4	82.86	82.71	82.57	82.42	82.28	82.13	81.99	81.84	81.69	81.55	81.40	81.4
81.5	82.95	82.81	82.67	82.52	82.38	82.23	82.09	81.94	81.79	81.65	81.50	81.5
81.6	83.05	82.91	82.76	82.62	82.48	82.33	82.19	82.04	81.89	81.75	81.60	81.6
81.7	83.15	83.01	82.86	82.72	82.57	82.43	82.28	82.14	81.99	81.85	81.70	81.7
81.8	83.25	83.11	82.96	82.82	82.67	82.53	82.38	82.24	82.09	81.95	81.80	81.8
81.9	83.35	83.20	83.06	82.92	82.77	82.63	82.48	82.34	82.19	82.05	81.90	81.9
82.0	83.44	83.30	83.16	83.02	82.87	82.73	82.58	82.44	82.29	82.15	82.00	82.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
82.0	83.44	83.30	83.16	83.02	82.87	82.73	82.58	82.44	82.29	82.15	82.00	82.0
82.1	83.54	83.40	83.26	83.11	82.97	82.83	82.68	82.54	82.39	82.25	82.10	82.1
82.2	83.64	83.50	83.36	83.21	83.07	82.93	82.78	82.64	82.49	82.35	82.20	82.2
82.3	83.74	83.60	83.45	83.31	83.17	83.02	82.88	82.74	82.59	82.45	82.30	82.3
82.4	83.84	83.70	83.55	83.41	83.27	83.12	82.98	82.84	82.69	82.55	82.40	82.4
82.5	83.94	83.79	83.65	83.51	83.37	83.22	83.08	82.93	82.79	82.65	82.50	82.5
82.6	84.03	83.89	83.75	83.61	83.47	83.32	83.18	83.03	82.89	82.75	82.60	82.6
82.7	84.13	83.99	83.85	83.71	83.56	83.42	83.28	83.13	82.99	82.84	82.70	82.7
82.8	84.23	84.09	83.95	83.81	83.66	83.52	83.38	83.23	83.09	82.94	82.80	82.8
82.9	84.33	84.19	84.05	83.90	83.76	83.62	83.48	83.33	83.19	83.04	82.90	82.9
83.0	84.43	84.29	84.14	84.00	83.86	83.72	83.58	83.43	83.29	83.14	83.00	83.0
83.1	84.53	84.38	84.24	84.10	83.96	83.82	83.67	83.53	83.39	83.24	83.10	83.1
83.2	84.62	84.48	84.34	84.20	84.06	83.92	83.77	83.63	83.49	83.34	83.20	83.2
83.3	84.72	84.58	84.44	84.30	84.16	84.02	83.87	83.73	83.59	83.44	83.30	83.3
83.4	84.82	84.68	84.54	84.40	84.26	84.11	83.97	83.83	83.69	83.54	83.40	83.4
83.5	84.92	84.78	84.64	84.50	84.36	84.21	84.07	83.93	83.79	83.64	83.50	83.5
83.6	85.02	84.88	84.74	84.60	84.45	84.31	84.17	84.03	83.89	83.74	83.60	83.6
83.7	85.11	84.97	84.83	84.69	84.55	84.41	84.27	84.13	83.99	83.84	83.70	83.7
83.8	85.21	85.07	84.93	84.79	84.65	84.51	84.37	84.23	84.09	83.94	83.80	83.8
83.9	85.31	85.17	85.03	84.89	84.75	84.61	84.47	84.33	84.19	84.04	83.90	83.9
84.0	85.41	85.27	85.13	84.99	84.85	84.71	84.57	84.43	84.28	84.14	84.00	84.0
84.1	85.51	85.37	85.23	85.09	84.95	84.81	84.67	84.53	84.38	84.24	84.10	84.1
84.2	85.60	85.47	85.33	85.19	85.05	84.91	84.77	84.63	84.48	84.34	84.20	84.2
84.3	85.70	85.56	85.42	85.29	85.15	85.01	84.87	84.72	84.58	84.44	84.30	84.3
84.4	85.80	85.66	85.52	85.38	85.24	85.11	84.96	84.82	84.68	84.54	84.40	84.4
84.5	85.90	85.76	85.62	85.48	85.34	85.20	85.06	84.92	84.78	84.64	84.50	84.5
84.6	86.00	85.86	85.72	85.58	85.44	85.30	85.16	85.02	84.88	84.74	84.60	84.6
84.7	86.09	85.96	85.82	85.68	85.54	85.40	85.26	85.12	84.98	84.84	84.70	84.7
84.8	86.19	86.05	85.92	85.78	85.64	85.50	85.36	85.22	85.08	84.94	84.80	84.8
84.9	86.29	86.15	86.01	85.88	85.74	85.60	85.46	85.32	85.18	85.04	84.90	84.9
85.0	86.39	86.25	86.11	85.98	85.84	85.70	85.56	85.42	85.28	85.14	85.00	85.0
85.1	86.49	86.35	86.21	86.07	85.94	85.80	85.66	85.52	85.38	85.24	85.10	85.1
85.2	86.58	86.45	86.31	86.17	86.03	85.90	85.76	85.62	85.48	85.34	85.20	85.2
85.3	86.68	86.54	86.41	86.27	86.13	86.00	85.86	85.72	85.58	85.44	85.30	85.3
85.4	86.78	86.64	86.51	86.37	86.23	86.09	85.96	85.82	85.68	85.54	85.40	85.4
85.5	86.88	86.74	86.60	86.47	86.33	86.19	86.06	85.92	85.78	85.64	85.50	85.5
85.6	86.97	86.84	86.70	86.57	86.43	86.29	86.15	86.02	85.88	85.74	85.60	85.6
85.7	87.07	86.94	86.80	86.66	86.53	86.39	86.25	86.12	85.98	85.84	85.70	85.7
85.8	87.17	87.03	86.90	86.76	86.63	86.49	86.35	86.22	86.08	85.94	85.80	85.8
85.9	87.27	87.13	87.00	86.86	86.73	86.59	86.45	86.31	86.18	86.04	85.90	85.9
86.0	87.36	87.23	87.10	86.96	86.82	86.69	86.55	86.41	86.28	86.14	86.00	86.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
86.0	87.36	87.23	87.10	86.96	86.82	86.69	86.55	86.41	86.28	86.14	86.00	86.0
86.1	87.46	87.33	87.19	87.06	86.92	86.79	86.65	86.51	86.38	86.24	86.10	86.1
86.2	87.56	87.43	87.29	87.16	87.02	86.89	86.75	86.61	86.48	86.34	86.20	86.2
86.3	87.66	87.52	87.39	87.26	87.12	86.98	86.85	86.71	86.58	86.44	86.30	86.3
86.4	87.76	87.62	87.49	87.35	87.22	87.08	86.95	86.81	86.67	86.54	86.40	86.4
86.5	87.85	87.72	87.59	87.45	87.32	87.18	87.05	86.91	86.77	86.64	86.50	86.5
86.6	87.95	87.82	87.68	87.55	87.42	87.28	87.15	87.01	86.87	86.74	86.60	86.6
86.7	88.05	87.92	87.78	87.65	87.51	87.38	87.24	87.11	86.97	86.84	86.70	86.7
86.8	88.15	88.01	87.88	87.75	87.61	87.48	87.34	87.21	87.07	86.94	86.80	86.8
86.9	88.24	88.11	87.98	87.85	87.71	87.58	87.44	87.31	87.17	87.04	86.90	86.9
87.0	88.34	88.21	88.08	87.94	87.81	87.68	87.54	87.41	87.27	87.14	87.00	87.0
87.1	88.44	88.31	88.17	88.04	87.91	87.77	87.64	87.51	87.37	87.24	87.10	87.1
87.2	88.54	88.40	88.27	88.14	88.01	87.87	87.74	87.61	87.47	87.34	87.20	87.2
87.3	88.63	88.50	88.37	88.24	88.11	87.97	87.84	87.70	87.57	87.44	87.30	87.3
87.4	88.73	88.60	88.47	88.34	88.20	88.07	87.94	87.80	87.67	87.54	87.40	87.4
87.5	88.83	88.70	88.57	88.43	88.30	88.17	88.04	87.90	87.77	87.63	87.50	87.5
87.6	88.93	88.79	88.66	88.53	88.40	88.27	88.14	88.00	87.87	87.73	87.60	87.6
87.7	89.02	88.89	88.76	88.63	88.50	88.37	88.23	88.10	87.97	87.83	87.70	87.7
87.8	89.12	88.99	88.86	88.73	88.60	88.47	88.33	88.20	88.07	87.93	87.80	87.8
87.9	89.22	89.09	88.96	88.83	88.70	88.56	88.43	88.30	88.17	88.03	87.90	87.9
88.0	89.31	89.19	89.06	88.93	88.79	88.66	88.53	88.40	88.27	88.13	88.00	88.0
88.1	89.41	89.28	89.15	89.02	88.89	88.76	88.63	88.50	88.37	88.23	88.10	88.1
88.2	89.51	89.38	89.25	89.12	88.99	88.86	88.73	88.60	88.47	88.33	88.20	88.2
88.3	89.61	89.48	89.35	89.22	89.09	88.96	88.83	88.70	88.57	88.43	88.30	88.3
88.4	89.70	89.58	89.45	89.32	89.19	89.06	88.93	88.80	88.66	88.53	88.40	88.4
88.5	89.80	89.67	89.54	89.42	89.29	89.16	89.03	88.90	88.76	88.63	88.50	88.5
88.6	89.90	89.77	89.64	89.51	89.38	89.26	89.13	88.99	88.86	88.73	88.60	88.6
88.7	89.99	89.87	89.74	89.61	89.48	89.35	89.22	89.09	88.96	88.83	88.70	88.7
88.8	90.09	89.96	89.84	89.71	89.58	89.45	89.32	89.19	89.06	88.93	88.80	88.8
88.9	90.19	90.06	89.94	89.81	89.68	89.55	89.42	89.29	89.16	89.03	88.90	88.9
89.0	90.29	90.16	90.03	89.91	89.78	89.65	89.52	89.39	89.26	89.13	89.00	89.0
89.1	90.38	90.26	90.13	90.00	89.88	89.75	89.62	89.49	89.36	89.23	89.10	89.1
89.2	90.48	90.35	90.23	90.10	89.97	89.85	89.72	89.59	89.46	89.33	89.20	89.2
89.3	90.58	90.45	90.33	90.20	90.07	89.94	89.82	89.69	89.56	89.43	89.30	89.3
89.4	90.67	90.55	90.42	90.30	90.17	90.04	89.92	89.79	89.66	89.53	89.40	89.4
89.5	90.77	90.65	90.52	90.39	90.27	90.14	90.01	89.89	89.76	89.63	89.50	89.5
89.6	90.87	90.74	90.62	90.49	90.37	90.24	90.11	89.99	89.86	89.73	89.60	89.6
89.7	90.96	90.84	90.72	90.59	90.46	90.34	90.21	90.08	89.96	89.83	89.70	89.7
89.8	91.06	90.94	90.81	90.69	90.56	90.44	90.31	90.18	90.06	89.93	89.80	89.8
89.9	91.16	91.03	90.91	90.79	90.66	90.54	90.41	90.28	90.16	90.03	89.90	89.9
90.0	91.25	91.13	91.01	90.88	90.76	90.63	90.51	90.38	90.26	90.13	90.00	90.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
90.0	91.25	91.13	91.01	90.88	90.76	90.63	90.51	90.38	90.26	90.13	90.00	90.0
90.1	91.35	91.23	91.11	90.98	90.86	90.73	90.61	90.48	90.35	90.23	90.10	90.1
90.2	91.45	91.33	91.20	91.08	90.96	90.83	90.71	90.58	90.45	90.33	90.20	90.2
90.3	91.55	91.42	91.30	91.18	91.05	90.93	90.80	90.68	90.55	90.43	90.30	90.3
90.4	91.64	91.52	91.40	91.27	91.15	91.03	90.90	90.78	90.65	90.53	90.40	90.4
90.5	91.74	91.62	91.50	91.37	91.25	91.13	91.00	90.88	90.75	90.63	90.50	90.5
90.6	91.84	91.71	91.59	91.47	91.35	91.22	91.10	90.98	90.85	90.73	90.60	90.6
90.7	91.93	91.81	91.69	91.57	91.45	91.32	91.20	91.08	90.95	90.83	90.70	90.7
90.8	92.03	91.91	91.79	91.67	91.54	91.42	91.30	91.17	91.05	90.93	90.80	90.8
90.9	92.13	92.01	91.88	91.76	91.64	91.52	91.40	91.27	91.15	91.02	90.90	90.9
91.0	92.22	92.10	91.98	91.86	91.74	91.62	91.50	91.37	91.25	91.12	91.00	91.0
91.1	92.32	92.20	92.08	91.96	91.84	91.72	91.59	91.47	91.35	91.22	91.10	91.1
91.2	92.41	92.30	92.18	92.06	91.94	91.81	91.69	91.57	91.45	91.32	91.20	91.2
91.3	92.51	92.39	92.27	92.15	92.03	91.91	91.79	91.67	91.55	91.42	91.30	91.3
91.4	92.61	92.49	92.37	92.25	92.13	92.01	91.89	91.77	91.65	91.52	91.40	91.4
91.5	92.70	92.59	92.47	92.35	92.23	92.11	91.99	91.87	91.75	91.62	91.50	91.5
91.6	92.80	92.68	92.56	92.45	92.33	92.21	92.09	91.97	91.84	91.72	91.60	91.6
91.7	92.90	92.78	92.66	92.54	92.42	92.31	92.19	92.06	91.94	91.82	91.70	91.7
91.8	92.99	92.88	92.76	92.64	92.52	92.40	92.28	92.16	92.04	91.92	91.80	91.8
91.9	93.09	92.97	92.86	92.74	92.62	92.50	92.38	92.26	92.14	92.02	91.90	91.9
92.0	93.19	93.07	92.95	92.84	92.72	92.60	92.48	92.36	92.24	92.12	92.00	92.0
92.1	93.28	93.17	93.05	92.93	92.82	92.70	92.58	92.46	92.34	92.22	92.10	92.1
92.2	93.38	93.26	93.15	93.03	92.91	92.80	92.68	92.56	92.44	92.32	92.20	92.2
92.3	93.47	93.36	93.24	93.13	93.01	92.89	92.78	92.66	92.54	92.42	92.30	92.3
92.4	93.57	93.46	93.34	93.23	93.11	92.99	92.88	92.76	92.64	92.52	92.40	92.4
92.5	93.67	93.55	93.44	93.32	93.21	93.09	92.97	92.86	92.74	92.62	92.50	92.5
92.6	93.76	93.65	93.54	93.42	93.30	93.19	93.07	92.95	92.84	92.72	92.60	92.6
92.7	93.86	93.75	93.63	93.52	93.40	93.29	93.17	93.05	92.94	92.82	92.70	92.7
92.8	93.96	93.84	93.73	93.61	93.50	93.38	93.27	93.15	93.04	92.92	92.80	92.8
92.9	94.05	93.94	93.83	93.71	93.60	93.48	93.37	93.25	93.13	93.02	92.90	92.9
93.0	94.15	94.04	93.92	93.81	93.70	93.58	93.47	93.35	93.23	93.12	93.00	93.0
93.1	94.24	94.13	94.02	93.91	93.79	93.68	93.56	93.45	93.33	93.22	93.10	93.1
93.2	94.34	94.23	94.12	94.00	93.89	93.78	93.66	93.55	93.43	93.32	93.20	93.2
93.3	94.44	94.32	94.21	94.10	93.99	93.87	93.76	93.65	93.53	93.42	93.30	93.3
93.4	94.53	94.42	94.31	94.20	94.09	93.97	93.86	93.75	93.63	93.52	93.40	93.4
93.5	94.63	94.52	94.41	94.30	94.18	94.07	93.96	93.84	93.73	93.62	93.50	93.5
93.6	94.72	94.61	94.50	94.39	94.28	94.17	94.06	93.94	93.83	93.71	93.60	93.6
93.7	94.82	94.71	94.60	94.49	94.38	94.27	94.15	94.04	93.93	93.81	93.70	93.7
93.8	94.91	94.81	94.70	94.59	94.48	94.36	94.25	94.14	94.03	93.91	93.80	93.8
93.9	95.01	94.90	94.79	94.68	94.57	94.46	94.35	94.24	94.13	94.01	93.90	93.9
94.0	95.11	95.00	94.89	94.78	94.67	94.56	94.45	94.34	94.23	94.11	94.00	94.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
94.0	95.11	95.00	94.89	94.78	94.67	94.56	94.45	94.34	94.23	94.11	94.00	94.0
94.1	95.20	95.09	94.99	94.88	94.77	94.66	94.55	94.44	94.33	94.21	94.10	94.1
94.2	95.30	95.19	95.08	94.97	94.87	94.76	94.65	94.54	94.42	94.31	94.20	94.2
94.3	95.39	95.29	95.18	95.07	94.96	94.85	94.74	94.63	94.52	94.41	94.30	94.3
94.4	95.49	95.38	95.28	95.17	95.06	94.95	94.84	94.73	94.62	94.51	94.40	94.4
94.5	95.58	95.48	95.37	95.27	95.16	95.05	94.94	94.83	94.72	94.61	94.50	94.5
94.6	95.68	95.57	95.47	95.36	95.26	95.15	95.04	94.93	94.82	94.71	94.60	94.6
94.7	95.78	95.67	95.57	95.46	95.35	95.25	95.14	95.03	94.92	94.81	94.70	94.7
94.8	95.87	95.77	95.66	95.56	95.45	95.34	95.24	95.13	95.02	94.91	94.80	94.8
94.9	95.97	95.86	95.76	95.65	95.55	95.44	95.33	95.23	95.12	95.01	94.90	94.9
95.0	96.06	95.96	95.85	95.75	95.64	95.54	95.43	95.32	95.22	95.11	95.00	95.0
95.1	96.16	96.05	95.95	95.85	95.74	95.64	95.53	95.42	95.32	95.21	95.10	95.1
95.2	96.25	96.15	96.05	95.94	95.84	95.73	95.63	95.52	95.42	95.31	95.20	95.2
95.3	96.35	96.25	96.14	96.04	95.94	95.83	95.73	95.62	95.51	95.41	95.30	95.3
95.4	96.44	96.34	96.24	96.14	96.03	95.93	95.82	95.72	95.61	95.51	95.40	95.4
95.5	96.54	96.44	96.34	96.23	96.13	96.03	95.92	95.82	95.71	95.61	95.50	95.5
95.6	96.63	96.53	96.43	96.33	96.23	96.12	96.02	95.92	95.81	95.71	95.60	95.6
95.7	96.73	96.63	96.53	96.43	96.32	96.22	96.12	96.01	95.91	95.81	95.70	95.7
95.8	96.82	96.72	96.62	96.52	96.42	96.32	96.22	96.11	96.01	95.91	95.80	95.8
95.9	96.92	96.82	96.72	96.62	96.52	96.42	96.31	96.21	96.11	96.00	95.90	95.9
96.0	97.01	96.92	96.82	96.72	96.62	96.51	96.41	96.31	96.21	96.10	96.00	96.0
96.1	97.11	97.01	96.91	96.81	96.71	96.61	96.51	96.41	96.31	96.20	96.10	96.1
96.2	97.20	97.11	97.01	96.91	96.81	96.71	96.61	96.51	96.41	96.30	96.20	96.2
96.3	97.30	97.20	97.10	97.01	96.91	96.81	96.71	96.61	96.50	96.40	96.30	96.3
96.4	97.39	97.30	97.20	97.10	97.00	96.90	96.80	96.70	96.60	96.50	96.40	96.4
96.5	97.49	97.39	97.30	97.20	97.10	97.00	96.90	96.80	96.70	96.60	96.50	96.5
96.6	97.58	97.49	97.39	97.29	97.20	97.10	97.00	96.90	96.80	96.70	96.60	96.6
96.7	97.68	97.58	97.49	97.39	97.29	97.20	97.10	97.00	96.90	96.80	96.70	96.7
96.8	97.77	97.68	97.58	97.49	97.39	97.29	97.20	97.10	97.00	96.90	96.80	96.8
96.9	97.87	97.77	97.68	97.58	97.49	97.39	97.29	97.20	97.10	97.00	96.90	96.9
97.0	97.96	97.87	97.77	97.68	97.58	97.49	97.39	97.30	97.20	97.10	97.00	97.0
97.1	98.06	97.96	97.87	97.78	97.68	97.59	97.49	97.39	97.30	97.20	97.10	97.1
97.2	98.15	98.06	97.97	97.87	97.78	97.68	97.59	97.49	97.40	97.30	97.20	97.2
97.3	98.25	98.15	98.06	97.97	97.87	97.78	97.69	97.59	97.49	97.40	97.30	97.3
97.4	98.34	98.25	98.16	98.06	97.97	97.88	97.78	97.69	97.59	97.50	97.40	97.4
97.5	98.43	98.34	98.25	98.16	98.07	97.97	97.88	97.79	97.69	97.60	97.50	97.5
97.6	98.53	98.44	98.35	98.26	98.16	98.07	97.98	97.89	97.79	97.70	97.60	97.6
97.7	98.62	98.53	98.44	98.35	98.26	98.17	98.08	97.98	97.89	97.80	97.70	97.7
97.8	98.72	98.63	98.54	98.45	98.36	98.27	98.17	98.08	97.99	97.89	97.80	97.8
97.9	98.81	98.72	98.63	98.54	98.45	98.36	98.27	98.18	98.09	97.99	97.90	97.9
98.0	98.90	98.82	98.73	98.64	98.55	98.46	98.37	98.28	98.19	98.09	98.00	98.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
98.0	98.90	98.82	98.73	98.64	98.55	98.46	98.37	98.28	98.19	98.09	98.00	98.0
98.1	99.00	98.91	98.82	98.74	98.65	98.56	98.47	98.38	98.28	98.19	98.10	98.1
98.2	99.09	99.01	98.92	98.83	98.74	98.65	98.56	98.47	98.38	98.29	98.20	98.2
98.3	99.19	99.10	99.01	98.93	98.84	98.75	98.66	98.57	98.49	98.39	98.30	98.3
98.4	99.28	99.19	99.11	99.02	98.94	98.85	98.76	98.67	98.58	98.49	98.40	98.4
98.5	99.37	99.29	99.20	99.12	99.03	98.94	98.86	98.77	98.68	98.59	98.50	98.5
98.6	99.47	99.38	99.30	99.21	99.13	99.04	98.95	98.87	98.78	98.69	98.60	98.6
98.7	99.56	99.48	99.39	99.31	99.22	99.14	99.05	98.96	98.88	98.79	98.70	98.7
98.8	99.65	99.57	99.49	99.40	99.32	99.23	99.15	99.06	98.98	98.89	98.80	98.8
98.9	99.75	99.66	99.58	99.50	99.42	99.33	99.25	99.16	99.07	98.99	98.90	98.9
99.0	99.84	99.76	99.68	99.59	99.51	99.43	99.34	99.26	99.17	99.09	99.00	99.0
99.1	99.93	99.85	99.77	99.69	99.61	99.52	99.44	99.36	99.27	99.19	99.10	99.1
99.2	—	99.94	99.86	99.78	99.70	99.62	99.54	99.45	99.37	99.29	99.20	99.2
99.3	—	—	99.96	99.88	99.80	99.72	99.64	99.55	99.47	99.38	99.30	99.3
99.4	—	—	—	99.97	99.89	99.81	99.73	99.65	99.57	99.48	99.40	99.4
99.5	—	—	—	—	99.99	99.91	99.83	99.75	99.67	99.58	99.50	99.5
99.6	—	—	—	—	—	—	99.93	99.85	99.76	99.68	99.60	99.6
99.7	—	—	—	—	—	—	—	99.94	99.86	99.78	99.70	99.7
99.8	—	—	—	—	—	—	—	—	99.96	99.88	99.80	99.8
99.9	—	—	—	—	—	—	—	—	—	99.98	99.90	99.9
100.0	—	—	—	—	—	—	—	—	—	—	100.00	100.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
18.0	18.00	17.86	17.72	17.57	17.43	17.29	17.14	17.00	16.86	16.71	16.57	18.0
18.1	18.10	17.93	17.81	17.67	17.53	17.38	17.24	17.09	16.95	16.81	16.66	18.1
18.2	18.20	18.06	17.91	17.77	17.62	17.48	17.34	17.19	17.04	16.90	16.75	18.2
18.3	18.30	18.16	18.01	17.87	17.72	17.58	17.43	17.29	17.14	16.99	16.85	18.3
18.4	18.40	18.26	18.11	17.96	17.82	17.67	17.53	17.38	17.23	17.09	16.94	18.4
18.5	18.50	18.35	18.21	18.06	17.92	17.77	17.62	17.48	17.33	17.18	17.03	18.5
18.6	18.60	18.45	18.31	18.16	18.01	17.87	17.72	17.57	17.42	17.28	17.13	18.6
18.7	18.70	18.55	18.41	18.26	18.11	17.96	17.82	17.67	17.52	17.37	17.22	18.7
18.8	18.80	18.65	18.50	18.36	18.21	18.06	17.91	17.76	17.61	17.46	17.32	18.8
18.9	18.90	18.75	18.60	18.45	18.31	18.16	18.01	17.86	17.71	17.56	17.41	18.9
19.0	19.00	18.85	18.70	18.55	18.40	18.25	18.10	17.95	17.80	17.65	17.50	19.0
19.1	19.10	18.95	18.80	18.65	18.50	18.35	18.20	18.05	17.90	17.75	17.60	19.1
19.2	19.20	19.05	18.90	18.75	18.60	18.45	18.30	18.14	17.99	17.84	17.69	19.2
19.3	19.30	19.15	19.00	18.85	18.69	18.54	18.39	18.24	18.09	17.94	17.78	19.3
19.4	19.40	19.25	19.10	18.94	18.79	18.64	18.49	18.34	18.18	18.03	17.88	19.4
19.5	19.50	19.35	19.19	19.04	18.89	18.74	18.58	18.43	18.28	18.13	17.97	19.5
19.6	19.60	19.45	19.29	19.14	18.99	18.83	18.68	18.53	18.37	18.22	18.07	19.6
19.7	19.70	19.55	19.39	19.24	19.08	18.93	18.78	18.62	18.48	18.31	18.16	19.7
19.8	19.80	19.65	19.49	19.34	19.18	19.03	18.87	18.72	18.56	18.41	18.25	19.8
19.9	19.90	19.74	19.59	19.43	19.28	19.12	18.97	18.81	18.66	18.50	18.35	19.9
20.0	20.00	19.84	19.69	19.53	19.38	19.22	19.06	18.91	18.75	18.60	18.44	20.0
20.1	20.10	19.94	19.79	19.63	19.47	19.32	19.16	19.00	18.85	18.69	18.53	20.1
20.2	20.20	20.04	19.89	19.73	19.57	19.41	19.26	19.10	18.94	18.79	18.63	20.2
20.3	20.30	20.14	19.98	19.83	19.67	19.51	19.35	19.20	19.04	18.88	18.72	20.3
20.4	20.40	20.24	20.08	19.92	19.77	19.61	19.45	19.29	19.13	18.97	18.82	20.4
20.5	20.50	20.34	20.18	20.02	19.86	19.70	19.55	19.39	19.23	19.07	18.91	20.5
20.6	20.60	20.44	20.28	20.12	19.96	19.80	19.64	19.48	19.32	19.16	19.00	20.6
20.7	20.70	20.54	20.38	20.22	20.06	19.90	19.74	19.58	19.42	19.26	19.10	20.7
20.8	20.80	20.64	20.48	20.32	20.16	20.00	19.83	19.67	19.51	19.35	19.19	20.8
20.9	20.90	20.74	20.58	20.41	20.25	20.09	19.93	19.77	19.61	19.45	19.29	20.9
21.0	21.00	20.84	20.68	20.51	20.35	20.19	20.03	19.87	19.70	19.54	19.38	21.0
21.1	21.10	20.94	20.77	20.61	20.45	20.29	20.12	19.96	19.80	19.64	19.47	21.1
21.2	21.20	21.04	20.87	20.71	20.55	20.38	20.22	20.06	19.89	19.73	19.57	21.2
21.3	21.30	21.14	20.97	20.81	20.64	20.48	20.32	20.15	19.99	19.83	19.66	21.3
21.4	21.40	21.23	21.07	20.91	20.74	20.58	20.41	20.25	20.08	19.92	19.76	21.4
21.5	21.50	21.33	21.17	21.00	20.84	20.67	20.51	20.34	20.18	20.02	19.85	21.5
21.6	21.60	21.43	21.27	21.10	20.94	20.77	20.61	20.44	20.28	20.11	19.95	21.6
21.7	21.70	21.53	21.37	21.20	21.03	20.87	20.70	20.54	20.37	20.21	20.04	21.7
21.8	21.80	21.63	21.47	21.30	21.13	20.96	20.80	20.63	20.47	20.30	20.13	21.8
21.9	21.90	21.73	21.56	21.40	21.23	21.06	20.89	20.73	20.56	20.39	20.23	21.9
22.0	22.00	21.83	21.66	21.49	21.33	21.16	20.99	20.82	20.66	20.49	20.32	22.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
22.0	22.00	21.83	21.66	21.49	21.33	21.16	20.99	20.82	20.66	20.49	20.32	22.0
22.1	22.10	21.93	21.76	21.59	21.42	21.26	21.09	20.92	20.75	20.58	20.42	22.1
22.2	22.20	22.03	21.86	21.69	21.52	21.35	21.18	21.02	20.85	20.68	20.51	22.2
22.3	22.30	22.13	21.96	21.79	21.62	21.45	21.28	21.11	20.94	20.77	20.61	22.3
22.4	22.40	22.23	22.06	21.89	21.72	21.55	21.38	21.21	21.04	20.87	20.70	22.4
22.5	22.50	22.33	22.16	21.99	21.81	21.64	21.47	21.30	21.13	20.96	20.80	22.5
22.6	22.60	22.43	22.26	22.08	21.91	21.74	21.57	21.40	21.23	21.06	20.89	22.6
22.7	22.70	22.53	22.35	22.18	22.01	21.84	21.67	21.50	21.33	21.15	20.98	22.7
22.8	22.80	22.63	22.45	22.28	22.11	21.94	21.76	21.59	21.42	21.25	21.08	22.8
22.9	22.90	22.73	22.55	22.38	22.21	22.03	21.86	21.69	21.52	21.35	21.17	22.9
23.0	23.00	22.83	22.65	22.48	22.30	22.13	21.96	21.78	21.61	21.44	21.27	23.0
23.1	23.10	22.92	22.75	22.58	22.40	22.23	22.05	21.88	21.71	21.54	21.36	23.1
23.2	23.20	23.02	22.85	22.67	22.50	22.33	22.15	21.98	21.80	21.63	21.46	23.2
23.3	23.30	23.12	22.95	22.77	22.60	22.42	22.25	22.07	21.90	21.73	21.55	23.3
23.4	23.40	23.22	23.05	22.87	22.70	22.52	22.34	22.17	22.00	21.82	21.65	23.4
23.5	23.50	23.32	23.15	22.97	22.79	22.62	22.44	22.27	22.09	21.92	21.74	23.5
23.6	23.60	23.42	23.24	23.07	22.89	22.71	22.54	22.36	22.19	22.01	21.84	23.6
23.7	23.70	23.52	23.34	23.17	22.99	22.81	22.64	22.46	22.28	22.11	21.93	23.7
23.8	23.80	23.62	23.44	23.26	23.09	22.91	22.73	22.56	22.38	22.20	22.03	23.8
23.9	23.90	23.72	23.54	23.36	23.18	23.01	22.83	22.65	22.48	22.30	22.12	23.9
24.0	24.00	23.82	23.64	23.46	23.28	23.10	22.93	22.75	22.57	22.39	22.22	24.0
24.1	24.10	23.92	23.74	23.56	23.38	23.20	23.02	22.85	22.67	22.49	22.31	24.1
24.2	24.20	24.02	23.84	23.66	23.48	23.30	23.12	22.94	22.76	22.59	22.41	24.2
24.3	24.30	24.12	23.94	23.76	23.58	23.40	23.22	23.04	22.86	22.68	22.50	24.3
24.4	24.40	24.22	24.04	23.86	23.67	23.49	23.31	23.14	22.96	22.78	22.60	24.4
24.5	24.50	24.32	24.14	23.95	23.77	23.59	23.41	23.23	23.05	22.87	22.69	24.5
24.6	24.60	24.42	24.23	24.05	23.87	23.69	23.51	23.33	23.15	22.97	22.79	24.6
24.7	24.70	24.52	24.33	24.15	23.97	23.79	23.61	23.43	23.24	23.06	22.88	24.7
24.8	24.80	24.62	24.43	24.25	24.07	23.89	23.70	23.52	23.34	23.16	22.98	24.8
24.9	24.90	24.72	24.53	24.35	24.17	23.98	23.80	23.62	23.40	23.26	23.08	24.9
25.0	25.00	24.82	24.63	24.45	24.26	24.08	23.90	23.72	23.53	23.35	23.17	25.0
25.1	25.10	24.91	24.73	24.55	24.36	24.18	24.00	23.81	23.63	23.45	23.27	25.1
25.2	25.20	25.01	24.83	24.64	24.46	24.28	24.09	23.91	23.73	23.54	23.36	25.2
25.3	25.30	25.11	24.93	24.74	24.56	24.37	24.19	24.01	23.82	23.64	23.46	25.3
25.4	25.40	25.21	25.03	24.84	24.66	24.47	24.29	24.10	23.92	23.74	23.55	25.4
25.5	25.50	25.31	25.13	24.94	24.75	24.57	24.39	24.20	24.02	23.83	23.65	25.5
25.6	25.60	25.41	25.23	25.04	24.85	24.67	24.48	24.30	24.11	23.93	23.75	25.6
25.7	25.70	25.51	25.32	25.14	24.95	24.77	24.58	24.39	24.21	24.03	23.84	25.7
25.8	25.80	25.61	25.42	25.24	25.05	24.86	24.68	24.49	24.31	24.12	23.94	25.8
25.9	25.90	25.71	25.52	25.34	25.15	24.96	24.78	24.59	24.40	24.22	24.03	25.9
26.0	26.00	25.81	25.62	25.43	25.25	25.06	24.87	24.69	24.50	24.31	24.13	26.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
26.0	26.00	25.81	25.62	25.43	25.25	25.06	24.87	24.69	24.50	24.31	24.13	26.0
26.1	26.10	25.91	25.72	25.53	25.35	25.16	24.97	24.78	24.60	24.41	24.23	26.1
26.2	26.20	26.01	25.82	25.63	25.44	25.26	25.07	24.88	24.69	24.51	24.32	26.2
26.3	26.30	26.11	25.92	25.73	25.54	25.35	25.17	24.98	24.79	24.60	24.42	26.3
26.4	26.40	26.21	26.02	25.83	25.64	25.45	25.26	25.08	24.89	24.70	24.51	26.4
26.5	26.50	26.31	26.12	25.93	25.74	25.55	25.36	25.17	24.98	24.80	24.61	26.5
26.6	26.60	26.41	26.22	26.03	25.84	25.65	25.46	25.27	25.08	24.89	24.71	26.6
26.7	26.70	26.51	26.32	26.13	25.94	25.75	25.56	25.37	25.18	24.99	24.80	26.7
26.8	26.80	26.61	26.42	26.23	26.03	25.84	25.65	25.47	25.28	25.09	24.90	26.8
26.9	26.90	26.71	26.52	26.32	26.13	25.94	25.75	25.56	25.37	25.18	25.00	26.9
27.0	27.00	26.81	26.62	26.42	26.23	26.04	25.85	25.66	25.47	25.28	25.09	27.0
27.1	27.10	26.91	26.71	26.52	26.33	26.14	25.95	25.76	25.57	25.38	25.19	27.1
27.2	27.20	27.01	26.81	26.62	26.43	26.24	26.05	25.86	25.67	25.48	25.29	27.2
27.3	27.30	27.11	26.91	26.72	26.53	26.34	26.14	25.95	25.76	25.57	25.38	27.3
27.4	27.40	27.21	27.01	26.82	26.63	26.43	26.24	26.05	25.86	25.67	25.48	27.4
27.5	27.50	27.31	27.11	26.92	26.73	26.53	26.34	26.15	25.96	25.77	25.58	27.5
27.6	27.60	27.41	27.21	27.02	26.82	26.63	26.44	26.25	26.05	25.86	25.67	27.6
27.7	27.70	27.51	27.31	27.12	26.92	26.73	26.54	26.34	26.15	25.96	25.77	27.7
27.8	27.80	27.60	27.41	27.22	27.02	26.83	26.63	26.44	26.25	26.06	25.87	27.8
27.9	27.90	27.70	27.51	27.31	27.12	26.93	26.73	26.54	26.35	26.16	25.96	27.9
28.0	28.00	27.80	27.61	27.41	27.22	27.03	26.83	26.64	26.45	26.25	26.06	28.0
28.1	28.10	27.90	27.71	27.51	27.32	27.12	26.93	26.74	26.54	26.35	26.16	28.1
28.2	28.20	28.00	27.81	27.61	27.42	27.22	27.03	26.83	26.64	26.45	26.25	28.2
28.3	28.30	28.10	27.91	27.71	27.52	27.32	27.13	26.93	26.74	26.54	26.35	28.3
28.4	28.40	28.20	28.01	27.81	27.61	27.42	27.22	27.03	26.84	26.64	26.45	28.4
28.5	28.50	28.30	28.11	27.91	27.71	27.52	27.32	27.13	26.93	26.74	26.55	28.5
28.6	28.60	28.40	28.21	28.01	27.81	27.62	27.42	27.23	27.03	26.84	26.64	28.6
28.7	28.70	28.50	28.30	28.11	27.91	27.72	27.52	27.32	27.13	26.94	26.74	28.7
28.8	28.80	28.60	28.40	28.21	28.01	27.81	27.62	27.42	27.23	27.03	26.84	28.8
28.9	28.90	28.70	28.50	28.31	28.11	27.91	27.72	27.52	27.33	27.13	26.94	28.9
29.0	29.00	28.80	28.60	28.41	28.21	28.01	27.82	27.62	27.42	27.23	27.03	29.0
29.1	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	27.33	27.13	29.1
29.2	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	27.62	27.42	27.23	29.2
29.3	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	27.33	29.3
29.4	29.40	29.20	29.00	28.80	28.61	28.41	28.21	28.01	27.82	27.62	27.42	29.4
29.5	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	29.5
29.6	29.60	29.40	29.20	29.00	28.80	28.61	28.41	28.21	28.01	27.82	27.62	29.6
29.7	29.70	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	29.7
29.8	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	29.8
29.9	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	29.9
30.0	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	30.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
30.0	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	30.0
30.1	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	28.31	28.11	30.1
30.2	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	30.2
30.3	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	28.31	30.3
30.4	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.40	30.4
30.5	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	30.5
30.6	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	30.6
30.7	30.70	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	30.7
30.8	30.80	30.60	30.40	30.20	29.99	29.79	29.59	29.39	29.19	29.00	28.80	30.8
30.9	30.90	30.70	30.50	30.30	30.09	29.89	29.69	29.49	29.29	29.09	28.90	30.9
31.0	31.00	30.80	30.60	30.39	30.19	29.99	29.79	29.59	29.39	29.19	28.99	31.0
31.1	31.10	30.90	30.70	30.49	30.29	30.09	29.89	29.69	29.49	29.29	29.09	31.1
31.2	31.20	31.00	30.80	30.59	30.39	30.19	29.99	29.79	29.59	29.39	29.19	31.2
31.3	31.30	31.10	30.90	30.69	30.49	30.29	30.09	29.89	29.69	29.49	29.29	31.3
31.4	31.40	31.20	31.00	30.79	30.59	30.39	30.19	29.99	29.79	29.59	29.39	31.4
31.5	31.50	31.30	31.10	30.89	30.69	30.49	30.29	30.09	29.89	29.69	29.49	31.5
31.6	31.60	31.40	31.19	30.99	30.79	30.59	30.39	30.19	29.99	29.79	29.59	31.6
31.7	31.70	31.50	31.29	31.09	30.89	30.69	30.49	30.29	30.09	29.88	29.68	31.7
31.8	31.80	31.60	31.39	31.19	30.99	30.79	30.59	30.39	30.18	29.98	29.78	31.8
31.9	31.90	31.70	31.49	31.29	31.09	30.89	30.69	30.48	30.28	30.08	29.88	31.9
32.0	32.00	31.80	31.59	31.39	31.19	30.99	30.79	30.58	30.38	30.18	29.98	32.0
32.1	32.10	31.90	31.69	31.49	31.29	31.09	30.88	30.68	30.48	30.28	30.08	32.1
32.2	32.20	32.00	31.79	31.59	31.39	31.19	30.98	30.78	30.58	30.38	30.18	32.2
32.3	32.30	32.10	31.89	31.69	31.49	31.29	31.08	30.88	30.68	30.48	30.28	32.3
32.4	32.40	32.20	31.99	31.79	31.59	31.39	31.18	30.98	30.78	30.58	30.38	32.4
32.5	32.50	32.30	32.09	31.89	31.69	31.48	31.28	31.08	30.88	30.68	30.48	32.5
32.6	32.60	32.40	32.19	31.99	31.79	31.58	31.38	31.18	30.98	30.78	30.57	32.6
32.7	32.70	32.50	32.29	32.09	31.89	31.68	31.48	31.28	31.08	30.88	30.67	32.7
32.8	32.80	32.60	32.39	32.19	31.99	31.78	31.58	31.38	31.18	30.97	30.77	32.8
32.9	32.90	32.70	32.49	32.29	32.09	31.88	31.68	31.48	31.28	31.07	30.87	32.9
33.0	33.00	32.80	32.59	32.39	32.19	31.98	31.78	31.58	31.38	31.17	30.97	33.0
33.1	33.10	32.90	32.69	32.49	32.29	32.08	31.88	31.68	31.48	31.27	31.07	33.1
33.2	33.20	33.00	32.79	32.59	32.39	32.18	31.98	31.78	31.57	31.37	31.17	33.2
33.3	33.30	33.10	32.89	32.69	32.49	32.28	32.08	31.88	31.67	31.47	31.27	33.3
33.4	33.40	33.20	32.99	32.79	32.59	32.38	32.18	31.98	31.77	31.57	31.37	33.4
33.5	33.50	33.30	33.09	32.89	32.69	32.48	32.28	32.08	31.87	31.67	31.47	33.5
33.6	33.60	33.40	33.19	32.99	32.79	32.58	32.38	32.18	31.97	31.77	31.57	33.6
33.7	33.70	33.50	33.29	33.09	32.88	32.68	32.48	32.28	32.07	31.87	31.67	33.7
33.8	33.80	33.60	33.39	33.19	32.98	32.78	32.58	32.38	32.17	31.97	31.77	33.8
33.9	33.90	33.70	33.49	33.29	33.08	32.88	32.68	32.47	32.27	32.07	31.87	33.9
34.0	34.00	33.80	33.59	33.39	33.18	32.98	32.78	32.57	32.37	32.17	31.97	34.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
34.0	34.00	33.80	33.59	33.39	33.18	32.98	32.78	32.57	32.37	32.17	31.97	34.0
34.1	34.10	33.90	33.69	33.49	33.28	33.08	32.88	32.67	32.47	32.27	32.07	34.1
34.2	34.20	34.00	33.79	33.59	33.38	33.18	32.98	32.77	32.57	32.37	32.17	34.2
34.3	34.30	34.10	33.89	33.69	33.48	33.28	33.08	32.87	32.67	32.47	32.27	34.3
34.4	34.40	34.20	33.99	33.79	33.58	33.38	33.18	32.97	32.77	32.57	32.37	34.4
34.5	34.50	34.30	34.09	33.89	33.68	33.48	33.28	33.07	32.87	32.67	32.46	34.5
34.6	34.60	34.40	34.19	33.99	33.78	33.58	33.38	33.17	32.97	32.77	32.56	34.6
34.7	34.70	34.50	34.29	34.09	33.88	33.68	33.48	33.27	33.07	32.87	32.66	34.7
34.8	34.80	34.60	34.39	34.19	33.98	33.78	33.58	33.37	33.17	32.97	32.76	34.8
34.9	34.90	34.70	34.49	34.29	34.08	33.88	33.68	33.47	33.27	33.07	32.86	34.9
35.0	35.00	34.80	34.59	34.39	34.18	33.98	33.78	33.57	33.37	33.17	32.96	35.0
35.1	35.10	34.90	34.69	34.49	34.28	34.08	33.88	33.67	33.47	33.27	33.06	35.1
35.2	35.20	35.00	34.79	34.59	34.38	34.18	33.98	33.77	33.57	33.37	33.16	35.2
35.3	35.30	35.10	34.89	34.69	34.48	34.28	34.08	33.87	33.67	33.47	33.26	35.3
35.4	35.40	35.20	34.99	34.79	34.58	34.38	34.18	33.97	33.77	33.57	33.36	35.4
35.5	35.50	35.30	35.09	34.89	34.68	34.48	34.28	34.07	33.87	33.67	33.46	35.5
35.6	35.60	35.40	35.19	34.99	34.78	34.58	34.38	34.17	33.97	33.77	33.56	35.6
35.7	35.70	35.50	35.29	35.09	34.89	34.68	34.48	34.27	34.07	33.87	33.66	35.7
35.8	35.80	35.60	35.39	35.19	34.99	34.78	34.58	34.37	34.17	33.97	33.76	35.8
35.9	35.90	35.70	35.49	35.29	35.09	34.88	34.68	34.48	34.27	34.07	33.87	35.9
36.0	36.00	35.80	35.59	35.39	35.19	34.98	34.78	34.58	34.37	34.17	33.97	36.0
36.1	36.10	35.90	35.69	35.49	35.29	35.08	34.88	34.68	34.47	34.27	34.07	36.1
36.2	36.20	36.00	35.79	35.59	35.39	35.18	34.98	34.78	34.57	34.37	34.17	36.2
36.3	36.30	36.10	35.89	35.69	35.49	35.28	35.08	34.88	34.67	34.47	34.27	36.3
36.4	36.40	36.20	35.99	35.79	35.59	35.38	35.18	34.98	34.77	34.57	34.37	36.4
36.5	36.50	36.30	36.09	35.89	35.69	35.48	35.28	35.08	34.87	34.67	34.47	36.5
36.6	36.60	36.40	36.19	35.99	35.79	35.58	35.38	35.18	34.97	34.77	34.57	36.6
36.7	36.70	36.50	36.29	36.09	35.89	35.68	35.48	35.28	35.07	34.87	34.67	36.7
36.8	36.80	36.60	36.39	36.19	35.99	35.78	35.58	35.38	35.17	34.97	34.77	36.8
36.9	36.90	36.70	36.49	36.29	36.09	35.88	35.68	35.48	35.27	35.07	34.87	36.9
37.0	37.00	36.80	36.59	36.39	36.19	35.98	35.78	35.58	35.38	35.17	34.97	37.0
37.1	37.10	36.90	36.69	36.49	36.29	36.08	35.88	35.68	35.48	35.27	35.07	37.1
37.2	37.20	37.00	36.79	36.59	36.39	36.19	35.98	35.78	35.58	35.37	35.17	37.2
37.3	37.30	37.10	36.89	36.69	36.49	36.29	36.08	35.88	35.68	35.47	35.27	37.3
37.4	37.40	37.20	36.99	36.79	36.59	36.39	36.18	35.98	35.78	35.57	35.37	37.4
37.5	37.50	37.30	37.09	36.89	36.69	36.49	36.28	36.08	35.88	35.67	35.47	37.5
37.6	37.60	37.40	37.19	36.99	36.79	36.59	36.38	36.18	35.98	35.78	35.57	37.6
37.7	37.70	37.50	37.29	37.09	36.89	36.69	36.48	36.28	36.08	35.88	35.67	37.7
37.8	37.80	37.60	37.39	37.19	36.99	36.79	36.58	36.38	36.18	35.98	35.77	37.8
37.9	37.90	37.70	37.50	37.29	37.09	36.89	36.69	36.48	36.28	36.08	35.87	37.9
38.0	38.00	37.80	37.60	37.39	37.19	36.99	36.79	36.58	36.38	36.18	35.98	38.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
38.0	38.00	37.80	37.60	37.39	37.19	36.99	36.79	36.58	36.38	36.18	35.98	38.0
38.1	38.10	37.90	37.70	37.49	37.29	37.09	36.89	36.68	36.48	36.28	36.08	38.1
38.2	38.20	38.00	37.80	37.59	37.39	37.19	36.99	36.78	36.58	36.38	36.18	38.2
38.3	38.30	38.10	37.90	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	38.3
38.4	38.40	38.20	38.00	37.79	37.59	37.39	37.19	36.99	36.78	36.58	36.38	38.4
38.5	38.50	38.30	38.10	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	38.5
38.6	38.60	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.98	36.78	36.58	38.6
38.7	38.70	38.50	38.30	38.09	37.89	37.69	37.49	37.29	37.08	36.88	36.68	38.7
38.8	38.80	38.60	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.98	36.78	38.8
38.9	38.90	38.70	38.50	38.30	38.09	37.89	37.69	37.49	37.29	37.08	36.88	38.9
39.0	39.00	38.80	38.60	38.40	38.19	37.99	37.79	37.59	37.39	37.19	36.98	39.0
39.1	39.10	38.90	38.70	38.50	38.29	38.09	37.89	37.69	37.49	37.29	37.08	39.1
39.2	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	37.39	37.18	39.2
39.3	39.30	39.10	38.90	38.70	38.50	38.29	38.09	37.89	37.69	37.49	37.29	39.3
39.4	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	37.39	39.4
39.5	39.50	39.30	39.10	38.90	38.70	38.49	38.29	38.09	37.89	37.69	37.49	39.5
39.6	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	39.6
39.7	39.70	39.50	39.30	39.10	38.90	38.70	38.49	38.29	38.09	37.89	37.69	39.7
39.8	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	39.8
39.9	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.29	38.09	37.89	39.9
40.0	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	40.0
40.1	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.29	38.09	40.1
40.2	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.40	38.19	40.2
40.3	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.30	40.3
40.4	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.40	40.4
40.5	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	40.5
40.6	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	40.6
40.7	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	40.7
40.8	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	40.8
40.9	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	40.9
41.0	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	41.0
41.1	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	41.1
41.2	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.81	39.61	39.41	39.21	41.2
41.3	41.30	41.10	40.90	40.70	40.50	40.31	40.11	39.91	39.71	39.51	39.31	41.3
41.4	41.40	41.20	41.00	40.80	40.60	40.41	40.21	40.01	39.81	39.61	39.41	41.4
41.5	41.50	41.30	41.10	40.90	40.71	40.51	40.31	40.11	39.91	39.71	39.51	41.5
41.6	41.60	41.40	41.20	41.00	40.81	40.61	40.41	40.21	40.01	39.81	39.61	41.6
41.7	41.70	41.50	41.30	41.10	40.91	40.71	40.51	40.31	40.11	39.91	39.71	41.7
41.8	41.80	41.60	41.40	41.21	41.01	40.81	40.61	40.41	40.21	40.01	39.81	41.8
41.9	41.90	41.70	41.50	41.31	41.11	40.91	40.71	40.51	40.31	40.11	39.91	41.9
42.0	42.00	41.80	41.60	41.41	41.21	41.01	40.81	40.61	40.41	40.21	40.01	42.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
42.0	42.00	41.80	41.60	41.41	41.21	41.01	40.81	40.61	40.41	40.21	40.01	42.0
42.1	42.10	41.90	41.70	41.51	41.31	41.11	40.91	40.71	40.51	40.32	40.12	42.1
42.2	42.20	42.00	41.80	41.61	41.41	41.21	41.01	40.81	40.62	40.42	40.22	42.2
42.3	42.30	42.10	41.91	41.71	41.51	41.31	41.11	40.91	40.72	40.52	40.32	42.3
42.4	42.40	42.20	42.01	41.81	41.61	41.41	41.21	41.02	40.82	40.62	40.42	42.4
42.5	42.50	42.30	42.11	41.91	41.71	41.51	41.31	41.12	40.92	40.72	40.52	42.5
42.6	42.60	42.40	42.21	42.01	41.81	41.61	41.42	41.22	41.02	40.82	40.62	42.6
42.7	42.70	42.50	42.31	42.11	41.91	41.71	41.52	41.32	41.12	40.92	40.72	42.7
42.8	42.80	42.60	42.41	42.21	42.01	41.81	41.62	41.42	41.22	41.02	40.82	42.8
42.9	42.90	42.70	42.51	42.31	42.11	41.92	41.72	41.52	41.32	41.12	40.93	42.9
43.0	43.00	42.80	42.61	42.41	42.21	42.02	41.82	41.62	41.42	41.23	41.03	43.0
43.1	43.10	42.90	42.71	42.51	42.31	42.12	41.92	41.72	41.52	41.33	41.13	43.1
43.2	43.20	43.00	42.81	42.61	42.41	42.22	42.02	41.82	41.63	41.43	41.23	43.2
43.3	43.30	43.10	42.91	42.71	42.51	42.32	42.12	41.92	41.73	41.53	41.33	43.3
43.4	43.40	43.20	43.01	42.81	42.62	42.42	42.22	42.02	41.83	41.63	41.43	43.4
43.5	43.50	43.30	43.11	42.91	42.72	42.52	42.32	42.13	41.93	41.73	41.53	43.5
43.6	43.60	43.40	43.21	43.01	42.82	42.62	42.42	42.23	42.03	41.83	41.64	43.6
43.7	43.70	43.50	43.31	43.11	42.92	42.72	42.52	42.33	42.13	41.93	41.74	43.7
43.8	43.80	43.60	43.41	43.21	43.02	42.82	42.62	42.43	42.23	42.03	41.84	43.8
43.9	43.90	43.70	43.51	43.31	43.12	42.92	42.73	42.53	42.33	42.14	41.94	43.9
44.0	44.00	43.80	43.61	43.41	43.22	43.02	42.83	42.63	42.43	42.24	42.04	44.0
44.1	44.10	43.91	43.71	43.51	43.32	43.12	42.93	42.73	42.53	42.34	42.14	44.1
44.2	44.20	44.01	43.81	43.62	43.42	43.22	43.03	42.83	42.64	42.44	42.24	44.2
44.3	44.30	44.11	43.91	43.72	43.52	43.32	43.13	42.93	42.74	42.54	42.34	44.3
44.4	44.40	44.21	44.01	43.82	43.62	43.43	43.23	43.03	42.84	42.64	42.45	44.4
44.5	44.50	44.31	44.11	43.92	43.72	43.53	43.33	43.13	42.94	42.74	42.55	44.5
44.6	44.60	44.41	44.21	44.02	43.82	43.63	43.43	43.24	43.04	42.84	42.65	44.6
44.7	44.70	44.51	44.31	44.12	43.92	43.73	43.53	43.34	43.14	42.95	42.75	44.7
44.8	44.80	44.61	44.41	44.22	44.02	43.83	43.63	43.44	43.24	43.05	42.85	44.8
44.9	44.90	44.71	44.51	44.32	44.12	43.93	43.73	43.54	43.34	43.15	42.95	44.9
45.0	45.00	44.81	44.61	44.42	44.22	44.03	43.83	43.64	43.44	43.25	43.05	45.0
45.1	45.10	44.91	44.71	44.52	44.32	44.13	43.94	43.74	43.55	43.35	43.16	45.1
45.2	45.20	45.01	44.81	44.62	44.43	44.23	44.04	43.84	43.65	43.45	43.26	45.2
45.3	45.30	45.11	44.91	44.72	44.53	44.33	44.14	43.94	43.75	43.55	43.36	45.3
45.4	45.40	45.21	45.01	44.82	44.63	44.43	44.24	44.04	43.85	43.65	43.46	45.4
45.5	45.50	45.31	45.11	44.92	44.73	44.53	44.34	44.14	43.95	43.76	43.56	45.5
45.6	45.60	45.41	45.21	45.02	44.83	44.63	44.44	44.25	44.05	43.86	43.66	45.6
45.7	45.70	45.51	45.31	45.12	44.93	44.73	44.54	44.35	44.15	43.96	43.76	45.7
45.8	45.80	45.61	45.41	45.22	45.03	44.84	44.64	44.45	44.25	44.06	43.86	45.8
45.9	45.90	45.71	45.51	45.32	45.13	44.94	44.74	44.55	44.35	44.16	43.97	45.9
46.0	46.00	45.81	45.62	45.42	45.23	45.04	44.84	44.65	44.46	44.26	44.07	46.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
46.0	46.00	45.81	45.62	45.42	45.23	45.04	44.84	44.65	44.46	44.26	44.07	46.0
46.1	46.10	45.91	45.72	45.52	45.33	45.14	44.94	44.75	44.56	44.36	44.17	46.1
46.2	46.20	46.01	45.82	45.62	45.43	45.24	45.04	44.85	44.66	44.46	44.27	46.2
46.3	46.30	46.11	45.92	45.72	45.53	45.34	45.15	44.95	44.76	44.57	44.37	46.3
46.4	46.40	46.21	46.02	45.82	45.63	45.44	45.25	45.05	44.86	44.67	44.47	46.4
46.5	46.50	46.31	46.12	45.92	45.73	45.54	45.35	45.15	44.96	44.77	44.57	46.5
46.6	46.60	46.41	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	46.6
46.7	46.70	46.51	46.32	46.13	45.93	45.74	45.55	45.36	45.16	44.97	44.78	46.7
46.8	46.80	46.61	46.42	46.23	46.03	45.84	45.65	45.46	45.26	45.07	44.88	46.8
46.9	46.90	46.71	46.52	46.33	46.13	45.94	45.75	45.56	45.37	45.17	44.98	46.9
47.0	47.00	46.81	46.62	46.43	46.24	46.04	45.85	45.66	45.47	45.27	45.08	47.0
47.1	47.10	46.91	46.72	46.53	46.34	46.14	45.95	45.76	45.57	45.37	45.18	47.1
47.2	47.20	47.01	46.82	46.63	46.44	46.24	46.05	45.86	45.67	45.48	45.28	47.2
47.3	47.30	47.11	46.92	46.73	46.54	46.35	46.15	45.96	45.77	45.58	45.38	47.3
47.4	47.40	47.21	47.02	46.83	46.64	46.45	46.25	46.06	45.87	45.68	45.49	47.4
47.5	47.50	47.31	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	47.5
47.6	47.60	47.41	47.22	47.03	46.84	46.65	46.46	46.26	46.07	45.88	45.69	47.6
47.7	47.70	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.17	45.98	45.79	47.7
47.8	47.80	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.08	45.89	47.8
47.9	47.90	47.71	47.52	47.33	47.14	46.95	46.76	46.57	46.38	46.18	45.99	47.9
48.0	48.00	47.81	47.62	47.43	47.24	47.05	46.86	46.67	46.48	46.29	46.09	48.0
48.1	48.10	47.91	47.72	47.53	47.34	47.15	46.96	46.77	46.58	46.39	46.20	48.1
48.2	48.20	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.68	46.49	46.30	48.2
48.3	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	48.3
48.4	48.40	48.21	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	48.4
48.5	48.50	48.31	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	48.5
48.6	48.60	48.41	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	48.6
48.7	48.70	48.51	48.32	48.13	47.94	47.75	47.57	47.38	47.18	46.99	46.80	48.7
48.8	48.80	48.61	48.42	48.23	48.05	47.86	47.67	47.48	47.29	47.10	46.90	48.8
48.9	48.90	48.71	48.52	48.33	48.15	47.96	47.77	47.58	47.39	47.20	47.01	48.9
49.0	49.00	48.81	48.62	48.43	48.25	48.06	47.87	47.68	47.49	47.30	47.11	49.0
49.1	49.10	48.91	48.72	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	49.1
49.2	49.20	49.01	48.82	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.31	49.2
49.3	49.30	49.11	48.92	48.74	48.55	48.36	48.17	47.98	47.79	47.60	47.41	49.3
49.4	49.40	49.21	49.02	48.84	48.65	48.46	48.27	48.08	47.89	47.70	47.51	49.4
49.5	49.50	49.31	49.12	48.94	48.75	48.56	48.37	48.18	47.99	47.80	47.61	49.5
49.6	49.60	49.41	49.23	49.04	48.85	48.66	48.47	48.28	48.09	47.91	47.72	49.6
49.7	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.38	48.20	48.01	47.82	49.7
49.8	49.80	49.61	49.43	49.24	49.05	48.86	48.67	48.49	48.30	48.11	47.92	49.8
49.9	49.90	49.71	49.53	49.34	49.15	48.96	48.77	48.59	48.40	48.21	48.02	49.9
50.0	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.31	48.12	50.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
50.0	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.31	48.12	50.0
50.1	50.10	49.91	49.73	49.54	49.35	49.16	48.98	48.79	48.60	48.41	48.22	50.1
50.2	50.20	50.01	49.83	49.64	49.45	49.26	49.08	48.89	48.70	48.51	48.32	50.2
50.3	50.30	50.11	49.93	49.74	49.55	49.37	49.18	48.99	48.80	48.61	48.42	50.3
50.4	50.40	50.21	50.03	49.84	49.65	49.47	49.28	49.09	48.90	48.71	48.53	50.4
50.5	50.50	50.31	50.13	49.94	49.75	49.57	49.38	49.19	49.00	48.82	48.63	50.5
50.6	50.60	50.41	50.23	50.04	49.85	49.67	49.48	49.29	49.10	48.92	48.73	50.6
50.7	50.70	50.51	50.33	50.14	49.96	49.77	49.58	49.39	49.21	49.02	48.83	50.7
50.8	50.80	50.61	50.43	50.24	50.06	49.87	49.68	49.49	49.31	49.12	48.93	50.8
50.9	50.90	50.71	50.53	50.34	50.16	49.97	49.78	49.60	49.41	49.22	49.03	50.9
51.0	51.00	50.81	50.63	50.44	50.26	50.07	49.88	49.70	49.51	49.32	49.13	51.0
51.1	51.10	50.91	50.73	50.54	50.36	50.17	49.98	49.80	49.61	49.42	49.23	51.1
51.2	51.20	51.01	50.83	50.64	50.46	50.27	50.08	49.90	49.71	49.52	49.34	51.2
51.3	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	49.81	49.62	49.44	51.3
51.4	51.40	51.22	51.03	50.84	50.66	50.47	50.29	50.10	49.91	49.73	49.54	51.4
51.5	51.50	51.32	51.13	50.94	50.76	50.57	50.39	50.20	50.01	49.83	49.64	51.5
51.6	51.60	51.42	51.23	51.05	50.86	50.67	50.49	50.30	50.12	49.93	49.74	51.6
51.7	51.70	51.52	51.33	51.15	50.96	50.77	50.59	50.40	50.22	50.03	49.84	51.7
51.8	51.80	51.62	51.43	51.25	51.06	50.88	50.69	50.50	50.32	50.13	49.94	51.8
51.9	51.90	51.72	51.53	51.35	51.16	50.98	50.79	50.60	50.42	50.23	50.04	51.9
52.0	52.00	51.82	51.63	51.45	51.26	51.08	50.89	50.71	50.52	50.33	50.15	52.0
52.1	52.10	51.92	51.73	51.55	51.36	51.18	50.99	50.81	50.62	50.43	50.25	52.1
52.2	52.20	52.02	51.83	51.65	51.46	51.28	51.09	50.91	50.72	50.53	50.35	52.2
52.3	52.30	52.12	51.93	51.75	51.56	51.38	51.19	51.01	50.82	50.64	50.45	52.3
52.4	52.40	52.22	52.03	51.85	51.66	51.48	51.29	51.11	50.92	50.74	50.55	52.4
52.5	52.50	52.32	52.13	51.95	51.76	51.58	51.39	51.21	51.02	50.84	50.65	52.5
52.6	52.60	52.42	52.23	52.05	51.86	51.68	51.50	51.31	51.13	50.94	50.75	52.6
52.7	52.70	52.52	52.33	52.15	51.97	51.78	51.60	51.41	51.23	51.04	50.85	52.7
52.8	52.80	52.62	52.43	52.25	52.07	51.88	51.70	51.51	51.33	51.14	50.96	52.8
52.9	52.90	52.72	52.53	52.35	52.17	51.98	51.80	51.61	51.43	51.24	51.06	52.9
53.0	53.00	52.82	52.63	52.45	52.27	52.08	51.90	51.71	51.53	51.34	51.16	53.0
53.1	53.10	52.92	52.73	52.55	52.37	52.18	52.00	51.81	51.63	51.44	51.26	53.1
53.2	53.20	53.02	52.83	52.65	52.47	52.28	52.10	51.92	51.73	51.55	51.36	53.2
53.3	53.30	53.12	52.93	52.75	52.57	52.38	52.20	52.02	51.83	51.65	51.46	53.3
53.4	53.40	53.22	53.03	52.85	52.67	52.49	52.30	52.12	51.93	51.75	51.56	53.4
53.5	53.50	53.32	53.14	52.95	52.77	52.59	52.40	52.22	52.03	51.85	51.66	53.5
53.6	53.60	53.42	53.24	53.05	52.87	52.69	52.50	52.32	52.13	51.95	51.77	53.6
53.7	53.70	53.52	53.34	53.15	52.97	52.79	52.60	52.42	52.24	52.05	51.87	53.7
53.8	53.80	53.62	53.44	53.25	53.07	52.89	52.70	52.52	52.34	52.15	51.97	53.8
53.9	53.90	53.72	53.54	53.35	53.17	52.99	52.80	52.62	52.44	52.25	52.07	53.9
54.0	54.00	53.82	53.64	53.45	53.27	53.09	52.91	52.72	52.54	52.35	52.17	54.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
54.0	54.00	53.82	53.64	53.45	53.27	53.09	52.91	52.72	52.54	52.35	52.17	54.0
54.1	54.10	53.92	53.74	53.55	53.37	53.19	53.01	52.82	52.64	52.46	52.27	54.1
54.2	54.20	54.02	53.84	53.65	53.47	53.29	53.11	52.92	52.74	52.56	52.37	54.2
54.3	54.30	54.12	53.94	53.76	53.57	53.39	53.21	53.02	52.84	52.66	52.47	54.3
54.4	54.40	54.22	54.04	53.86	53.67	53.49	53.31	53.13	52.94	52.76	52.58	54.4
54.5	54.50	54.32	54.14	53.96	53.77	53.59	53.41	53.23	53.04	52.86	52.68	54.5
54.6	54.60	54.42	54.24	54.06	53.87	53.69	53.51	53.33	53.14	52.96	52.78	54.6
54.7	54.70	54.52	54.34	54.16	53.97	53.79	53.61	53.43	53.25	53.06	52.88	54.7
54.8	54.80	54.62	54.44	54.26	54.08	53.89	53.71	53.53	53.35	53.16	52.98	54.8
54.9	54.90	54.72	54.54	54.36	54.18	53.99	53.81	53.63	53.45	53.26	53.08	54.9
55.0	55.00	54.82	54.64	54.46	54.28	54.09	53.91	53.73	53.55	53.37	53.18	55.0
55.1	55.10	54.92	54.74	54.56	54.38	54.20	54.01	53.83	53.65	53.47	53.28	55.1
55.2	55.20	55.02	54.84	54.66	54.48	54.30	54.11	53.93	53.75	53.57	53.38	55.2
55.3	55.30	55.12	54.94	54.76	54.58	54.40	54.21	54.03	53.85	53.67	53.49	55.3
55.4	55.40	55.22	55.04	54.86	54.68	54.50	54.32	54.13	53.95	53.77	53.59	55.4
55.5	55.50	55.32	55.14	54.96	54.78	54.60	54.42	54.23	54.05	53.87	53.69	55.5
55.6	55.60	55.42	55.24	55.06	54.88	54.70	54.52	54.34	54.15	53.97	53.79	55.6
55.7	55.70	55.52	55.34	55.16	54.98	54.80	54.62	54.44	54.25	54.07	53.89	55.7
55.8	55.80	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.36	54.17	53.99	55.8
55.9	55.90	55.72	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.27	54.09	55.9
56.0	56.00	55.82	55.64	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.19	56.0
56.1	56.10	55.92	55.74	55.56	55.38	55.20	55.02	54.84	54.66	54.48	54.29	56.1
56.2	56.20	56.02	55.84	55.66	55.48	55.30	55.12	54.94	54.76	54.58	54.40	56.2
56.3	56.30	56.12	55.94	55.76	55.58	55.40	55.22	55.04	54.86	54.68	54.50	56.3
56.4	56.40	56.22	56.04	55.86	55.68	55.50	55.32	55.14	54.96	54.78	54.60	56.4
56.5	56.50	56.32	56.14	55.96	55.78	55.60	55.42	55.24	55.06	54.88	54.70	56.5
56.6	56.60	56.42	56.24	56.06	55.88	55.70	55.52	55.34	55.16	54.98	54.80	56.6
56.7	56.70	56.52	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.90	56.7
56.8	56.80	56.62	56.44	56.26	56.08	55.91	55.73	55.54	55.36	55.18	55.00	56.8
56.9	56.90	56.72	56.54	56.36	56.19	56.01	55.83	55.65	55.47	55.28	55.10	56.9
57.0	57.00	56.82	56.64	56.46	56.29	56.11	55.93	55.75	55.57	55.39	55.20	57.0
57.1	57.10	56.92	56.74	56.56	56.39	56.21	56.03	55.85	55.67	55.49	55.31	57.1
57.2	57.20	57.02	56.84	56.67	56.49	56.31	56.13	55.95	55.77	55.59	55.41	57.2
57.3	57.30	57.12	56.94	56.77	56.59	56.41	56.23	56.05	55.87	55.69	55.51	57.3
57.4	57.40	57.22	57.04	56.87	56.69	56.51	56.33	56.15	55.97	55.79	55.61	57.4
57.5	57.50	57.32	57.14	56.97	56.79	56.61	56.43	56.25	56.07	55.89	55.71	57.5
57.6	57.60	57.42	57.24	57.07	56.89	56.71	56.53	56.35	56.17	55.99	55.81	57.6
57.7	57.70	57.52	57.35	57.17	56.99	56.81	56.63	56.45	56.27	56.09	55.91	57.7
57.8	57.80	57.62	57.45	57.27	57.09	56.91	56.73	56.55	56.37	56.19	56.01	57.8
57.9	57.90	57.72	57.55	57.37	57.19	57.01	56.83	56.65	56.47	56.29	56.11	57.9
58.0	58.00	57.82	57.65	57.47	57.29	57.11	56.93	56.75	56.58	56.40	56.22	58.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
58.0	58.00	57.82	57.65	57.47	57.29	57.11	56.93	56.75	56.58	56.40	56.22	58.0
58.1	58.10	57.92	57.75	57.57	57.39	57.21	57.03	56.86	56.68	56.50	56.32	58.1
58.2	58.20	58.02	57.85	57.67	57.49	57.31	57.13	56.96	56.78	56.60	56.42	58.2
58.3	58.30	58.12	57.95	57.77	57.59	57.41	57.24	57.06	56.88	56.70	56.52	58.3
58.4	58.40	58.22	58.05	57.87	57.69	57.51	57.34	57.16	56.98	56.80	56.62	58.4
58.5	58.50	58.32	58.15	57.97	57.79	57.61	57.44	57.26	57.08	56.90	56.72	58.5
58.6	58.60	58.42	58.25	58.07	57.89	57.72	57.54	57.36	57.18	57.00	56.82	58.6
58.7	58.70	58.52	58.35	58.17	57.99	57.82	57.64	57.46	57.28	57.10	56.92	58.7
58.8	58.80	58.62	58.45	58.27	58.09	57.92	57.74	57.56	57.38	57.20	57.02	58.8
58.9	58.90	58.72	58.55	58.37	58.19	58.02	57.84	57.66	57.48	57.30	57.13	58.9
59.0	59.00	58.82	58.65	58.47	58.29	58.12	57.94	57.76	57.58	57.41	57.23	59.0
59.1	59.10	58.92	58.75	58.57	58.39	58.22	58.04	57.86	57.68	57.51	57.33	59.1
59.2	59.20	59.02	58.85	58.67	58.50	58.32	58.14	57.96	57.79	57.61	57.43	59.2
59.3	59.30	59.12	58.95	58.77	58.60	58.42	58.24	58.06	57.89	57.71	57.53	59.3
59.4	59.40	59.22	59.05	58.87	58.70	58.52	58.34	58.17	57.99	57.81	57.63	59.4
59.5	59.50	59.32	59.15	58.97	58.80	58.62	58.44	58.27	58.09	57.91	57.73	59.5
59.6	59.60	59.42	59.25	59.07	58.90	58.72	58.54	58.37	58.19	58.01	57.83	59.6
59.7	59.70	59.52	59.35	59.17	59.00	58.82	58.64	58.47	58.29	58.11	57.93	59.7
59.8	59.80	59.63	59.45	59.27	59.10	58.92	58.75	58.57	58.39	58.21	58.04	59.8
59.9	59.90	59.73	59.55	59.37	59.20	59.02	58.85	58.67	58.49	58.31	58.14	59.9
60.0	60.00	59.83	59.65	59.47	59.30	59.12	58.95	58.77	58.59	58.42	58.24	60.0
60.1	60.10	59.93	59.75	59.58	59.40	59.22	59.05	58.87	58.69	58.52	58.34	60.1
60.2	60.20	60.03	59.85	59.68	59.50	59.32	59.15	58.97	58.79	58.62	58.44	60.2
60.3	60.30	60.13	59.95	59.78	59.60	59.42	59.25	59.07	58.90	58.72	58.54	60.3
60.4	60.40	60.23	60.05	59.88	59.70	59.53	59.35	59.17	59.00	58.82	58.64	60.4
60.5	60.50	60.33	60.15	59.98	59.80	59.63	59.45	59.27	59.10	58.92	58.74	60.5
60.6	60.60	60.43	60.25	60.08	59.90	59.73	59.55	59.37	59.20	59.02	58.84	60.6
60.7	60.70	60.53	60.35	60.18	60.00	59.83	59.65	59.48	59.30	59.12	58.95	60.7
60.8	60.80	60.63	60.45	60.28	60.10	59.93	59.75	59.58	59.40	59.22	59.05	60.8
60.9	60.90	60.73	60.55	60.38	60.20	60.03	59.85	59.68	59.50	59.32	59.15	60.9
61.0	61.00	60.83	60.65	60.48	60.30	60.13	59.95	59.78	59.60	59.43	59.25	61.0
61.1	61.10	60.93	60.75	60.58	60.40	60.23	60.05	59.88	59.70	59.53	59.35	61.1
61.2	61.20	61.03	60.85	60.68	60.50	60.33	60.15	59.98	59.80	59.63	59.45	61.2
61.3	61.30	61.13	60.95	60.78	60.60	60.43	60.26	60.08	59.90	59.73	59.55	61.3
61.4	61.40	61.23	61.05	60.88	60.71	60.53	60.36	60.18	60.01	59.83	59.65	61.4
61.5	61.50	61.33	61.15	60.98	60.81	60.63	60.46	60.28	60.11	59.93	59.75	61.5
61.6	61.60	61.43	61.25	61.08	60.91	60.73	60.56	60.38	60.21	60.03	59.86	61.6
61.7	61.70	61.53	61.35	61.18	61.01	60.83	60.66	60.48	60.31	60.13	59.96	61.7
61.8	61.80	61.63	61.45	61.28	61.11	60.93	60.76	60.58	60.41	60.23	60.06	61.8
61.9	61.90	61.73	61.55	61.38	61.21	61.03	60.86	60.68	60.51	60.33	60.16	61.9
62.0	62.00	61.83	61.65	61.48	61.31	61.13	60.96	60.79	60.61	60.44	60.26	62.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
62.0	62.00	61.83	61.65	61.48	61.31	61.13	60.96	60.79	60.61	60.44	60.26	62.0
62.1	62.10	61.93	61.75	61.58	61.41	61.23	61.06	60.89	60.71	60.54	60.36	62.1
62.2	62.20	62.03	61.86	61.68	61.51	61.34	61.16	60.99	60.81	60.64	60.46	62.2
62.3	62.30	62.13	61.96	61.78	61.61	61.44	61.26	61.09	60.91	60.74	60.56	62.3
62.4	62.40	62.23	62.06	61.88	61.71	61.54	61.36	61.19	61.01	60.84	60.66	62.4
62.5	62.50	62.33	62.16	61.98	61.81	61.64	61.46	61.29	61.11	60.94	60.77	62.5
62.6	62.60	62.43	62.26	62.08	61.91	61.74	61.56	61.39	61.22	61.04	60.87	62.6
62.7	62.70	62.53	62.36	62.18	62.01	61.84	61.66	61.49	61.32	61.14	60.97	62.7
62.8	62.80	62.63	62.46	62.28	62.11	61.94	61.77	61.59	61.42	61.24	61.07	62.8
62.9	62.90	62.73	62.56	62.38	62.21	62.04	61.87	61.69	61.52	61.34	61.17	62.9
63.0	63.00	62.83	62.66	62.48	62.31	62.14	61.97	61.79	61.62	61.45	61.27	63.0
63.1	63.10	62.93	62.76	62.59	62.41	62.24	62.07	61.89	61.72	61.55	61.37	63.1
63.2	63.20	63.03	62.86	62.69	62.51	62.34	62.17	61.99	61.82	61.65	61.47	63.2
63.3	63.30	63.13	62.96	62.79	62.61	62.44	62.27	62.10	61.92	61.75	61.57	63.3
63.4	63.40	63.23	63.06	62.89	62.71	62.54	62.37	62.20	62.02	61.85	61.68	63.4
63.5	63.50	63.33	63.16	62.99	62.81	62.64	62.47	62.30	62.12	61.95	61.78	63.5
63.6	63.60	63.43	63.26	63.09	62.91	62.74	62.57	62.40	62.22	62.05	61.88	63.6
63.7	63.70	63.53	63.36	63.19	63.02	62.84	62.67	62.50	62.33	62.15	61.98	63.7
63.8	63.80	63.63	63.46	63.29	63.12	62.94	62.77	62.60	62.43	62.25	62.08	63.8
63.9	63.90	63.73	63.56	63.39	63.22	63.04	62.87	62.70	62.53	62.35	62.18	63.9
64.0	64.00	63.83	63.66	63.49	63.32	63.15	62.97	62.80	62.63	62.46	62.28	64.0
64.1	64.10	63.93	63.76	63.59	63.42	63.25	63.07	62.90	62.73	62.56	62.38	64.1
64.2	64.20	64.03	63.86	63.69	63.52	63.35	63.17	63.00	62.83	62.66	62.48	64.2
64.3	64.30	64.13	63.96	63.79	63.62	63.45	63.28	63.10	62.93	62.76	62.59	64.3
64.4	64.40	64.23	64.06	63.89	63.72	63.55	63.38	63.20	63.03	62.86	62.69	64.4
64.5	64.50	64.33	64.16	63.99	63.82	63.65	63.48	63.30	63.13	62.96	62.79	64.5
64.6	64.60	64.43	64.26	64.09	63.92	63.75	63.58	63.41	63.23	63.06	62.89	64.6
64.7	64.70	64.53	64.36	64.19	64.02	63.85	63.68	63.51	63.33	63.16	62.99	64.7
64.8	64.80	64.63	64.46	64.29	64.12	63.95	63.78	63.61	63.44	63.26	63.09	64.8
64.9	64.90	64.73	64.56	64.39	64.22	64.05	63.88	63.71	63.54	63.36	63.19	64.9
65.0	65.00	64.83	64.66	64.49	64.32	64.15	63.98	63.81	63.64	63.47	63.29	65.0
65.1	65.10	64.93	64.76	64.59	64.42	64.25	64.08	63.91	63.74	63.57	63.39	65.1
65.2	65.20	65.03	64.86	64.69	64.52	64.35	64.18	64.01	63.84	63.67	63.50	65.2
65.3	65.30	65.13	64.96	64.79	64.62	64.45	64.28	64.11	63.94	63.77	63.60	65.3
65.4	65.40	65.23	65.06	64.89	64.72	64.55	64.38	64.21	64.04	63.87	63.70	65.4
65.5	65.50	65.33	65.16	64.99	64.82	64.65	64.48	64.31	64.14	63.97	63.80	65.5
65.6	65.60	65.43	65.26	65.09	64.92	64.75	64.58	64.41	64.24	64.07	63.90	65.6
65.7	65.70	65.53	65.36	65.19	65.02	64.85	64.68	64.51	64.34	64.17	64.00	65.7
65.8	65.80	65.63	65.46	65.29	65.13	64.96	64.79	64.62	64.44	64.27	64.10	65.8
65.9	65.90	65.73	65.56	65.39	65.23	65.06	64.89	64.72	64.55	64.37	64.20	65.9
66.0	66.00	65.83	65.66	65.49	65.33	65.16	64.99	64.82	64.65	64.48	64.30	66.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
66.0	66.00	65.83	65.66	65.49	65.33	65.16	64.99	64.82	64.65	64.48	64.30	66.0
66.1	66.10	65.93	65.76	65.60	65.43	65.26	65.09	64.92	64.75	64.58	64.41	66.1
66.2	66.20	66.03	65.86	65.70	65.53	65.36	65.19	65.02	64.85	64.68	64.51	66.2
66.3	66.30	66.13	65.96	65.80	65.63	65.46	65.29	65.12	64.95	64.78	64.61	66.3
66.4	66.40	66.23	66.06	65.90	65.73	65.56	65.39	65.22	65.05	64.88	64.71	66.4
66.5	66.50	66.33	66.16	66.00	65.83	65.66	65.49	65.32	65.15	64.98	64.81	66.5
66.6	66.60	66.43	66.27	66.10	65.93	65.76	65.59	65.42	65.25	65.08	64.91	66.6
66.7	66.70	66.53	66.37	66.20	66.03	65.86	65.69	65.52	65.35	65.18	65.01	66.7
66.8	66.80	66.63	66.47	66.30	66.13	65.96	65.79	65.62	65.45	65.28	65.11	66.8
66.9	66.90	66.73	66.57	66.40	66.23	66.06	65.89	65.72	65.55	65.38	65.21	66.9
67.0	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.66	65.49	65.32	67.0
67.1	67.10	66.93	66.77	66.60	66.43	66.26	66.09	65.93	65.76	65.59	65.42	67.1
67.2	67.20	67.03	66.87	66.70	66.53	66.36	66.20	66.03	65.86	65.69	65.52	67.2
67.3	67.30	67.13	66.97	66.80	66.63	66.46	66.30	66.13	65.96	65.79	65.62	67.3
67.4	67.40	67.23	67.07	66.90	66.73	66.56	66.40	66.23	66.06	65.89	65.72	67.4
67.5	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	67.5
67.6	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.43	66.26	66.09	65.92	67.6
67.7	67.70	67.53	67.37	67.20	67.03	66.87	66.70	66.53	66.36	66.19	66.02	67.7
67.8	67.80	67.63	67.47	67.30	67.13	66.97	66.80	66.63	66.46	66.29	66.13	67.8
67.9	67.90	67.73	67.57	67.40	67.23	67.07	66.90	66.73	66.56	66.40	66.23	67.9
68.0	68.00	67.83	67.67	67.50	67.34	67.17	67.00	66.83	66.67	66.50	66.33	68.0
68.1	68.10	67.93	67.77	67.60	67.44	67.27	67.10	66.93	66.77	66.60	66.43	68.1
68.2	68.20	68.03	67.87	67.70	67.54	67.37	67.20	67.03	66.87	66.70	66.53	68.2
68.3	68.30	68.13	67.97	67.80	67.64	67.47	67.30	67.14	66.97	66.80	66.63	68.3
68.4	68.40	68.23	68.07	67.90	67.74	67.57	67.40	67.24	67.07	66.90	66.73	68.4
68.5	68.50	68.33	68.17	68.00	67.84	67.67	67.50	67.34	67.17	67.00	66.83	68.5
68.6	68.60	68.44	68.27	68.10	67.94	67.77	67.61	67.44	67.27	67.10	66.94	68.6
68.7	68.70	68.54	68.37	68.20	68.04	67.87	67.71	67.54	67.37	67.20	67.04	68.7
68.8	68.80	68.64	68.47	68.30	68.14	67.97	67.81	67.64	67.47	67.31	67.14	68.8
68.9	68.90	68.74	68.57	68.41	68.24	68.07	67.91	67.74	67.57	67.41	67.24	68.9
69.0	69.00	68.84	68.67	68.51	68.34	68.17	68.01	67.84	67.67	67.51	67.34	69.0
69.1	69.10	68.94	68.77	68.61	68.44	68.28	68.11	67.94	67.78	67.61	67.44	69.1
69.2	69.20	69.04	68.87	68.71	68.54	68.38	68.21	68.04	67.88	67.71	67.54	69.2
69.3	69.30	69.14	68.97	68.81	68.64	68.48	68.31	68.14	67.98	67.81	67.64	69.3
69.4	69.40	69.24	69.07	68.91	68.74	68.58	68.41	68.25	68.08	67.91	67.74	69.4
69.5	69.50	69.34	69.17	69.01	68.84	68.68	68.51	68.35	68.18	68.01	67.85	69.5
69.6	69.60	69.44	69.27	69.11	68.94	68.78	68.61	68.45	68.28	68.11	67.95	69.6
69.7	69.70	69.54	69.37	69.21	69.04	68.88	68.71	68.55	68.38	68.22	68.05	69.7
69.8	69.80	69.64	69.47	69.31	69.14	68.98	68.81	68.65	68.48	68.32	68.15	69.8
69.9	69.90	69.74	69.57	69.41	69.24	69.08	68.91	68.75	68.58	68.42	68.25	69.9
70.0	70.00	69.84	69.67	69.51	69.35	69.18	69.02	68.85	68.68	68.52	68.35	70.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
70.0	70.00	69.84	69.67	69.51	69.35	69.18	69.02	68.85	68.68	68.52	68.35	70.0
70.1	70.10	69.94	69.77	69.61	69.45	69.28	69.12	68.95	68.79	68.62	68.45	70.1
70.2	70.20	70.04	69.87	69.71	69.55	69.38	69.22	69.05	68.89	68.72	68.56	70.2
70.3	70.30	70.14	69.97	69.81	69.65	69.48	69.32	69.15	68.99	68.82	68.66	70.3
70.4	70.40	70.24	70.07	69.91	69.75	69.58	69.42	69.25	69.09	68.92	68.76	70.4
70.5	70.50	70.34	70.17	70.01	69.85	69.68	69.52	69.35	69.19	69.02	68.86	70.5
70.6	70.60	70.44	70.27	70.11	69.95	69.78	69.62	69.46	69.29	69.13	68.96	70.6
70.7	70.70	70.54	70.38	70.21	70.05	69.89	69.72	69.56	69.39	69.23	69.06	70.7
70.8	70.80	70.64	70.48	70.31	70.15	69.99	69.82	69.66	69.49	69.33	69.16	70.8
70.9	70.90	70.74	70.58	70.41	70.25	70.09	69.92	69.76	69.59	69.43	69.26	70.9
71.0	71.00	70.84	70.68	70.51	70.35	70.19	70.02	69.86	69.69	69.53	69.37	71.0
71.1	71.10	70.94	70.78	70.61	70.45	70.29	70.12	69.96	69.80	69.63	69.47	71.1
71.2	71.20	71.04	70.88	70.71	70.55	70.39	70.22	70.06	69.90	69.73	69.57	71.2
71.3	71.30	71.14	70.98	70.81	70.65	70.49	70.33	70.16	70.00	69.83	69.67	71.3
71.4	71.40	71.24	71.08	70.91	70.75	70.59	70.43	70.26	70.10	69.93	69.77	71.4
71.5	71.50	71.34	71.18	71.02	70.85	70.69	70.53	70.36	70.20	70.04	69.87	71.5
71.6	71.60	71.44	71.28	71.12	70.95	70.79	70.63	70.46	70.30	70.14	69.97	71.6
71.7	71.70	71.54	71.38	71.22	71.05	70.89	70.73	70.57	70.40	70.24	70.07	71.7
71.8	71.80	71.64	71.48	71.32	71.15	70.99	70.83	70.67	70.50	70.34	70.18	71.8
71.9	71.90	71.74	71.58	71.42	71.25	71.09	70.93	70.77	70.60	70.44	70.28	71.9
72.0	72.00	71.84	71.68	71.52	71.36	71.19	71.03	70.87	70.71	70.54	70.38	72.0
72.1	72.10	71.94	71.78	71.62	71.46	71.29	71.13	70.97	70.81	70.64	70.48	72.1
72.2	72.20	72.04	71.88	71.72	71.56	71.39	71.23	71.07	70.91	70.74	70.58	72.2
72.3	72.30	72.14	71.98	71.82	71.66	71.50	71.33	71.17	71.01	70.85	70.68	72.3
72.4	72.40	72.24	72.08	71.92	71.76	71.60	71.43	71.27	71.11	70.95	70.78	72.4
72.5	72.50	72.34	72.18	72.02	71.86	71.70	71.53	71.37	71.21	71.05	70.88	72.5
72.6	72.60	72.44	72.28	72.12	71.96	71.80	71.64	71.47	71.31	71.15	70.99	72.6
72.7	72.70	72.54	72.38	72.22	72.06	71.90	71.74	71.57	71.41	71.25	71.09	72.7
72.8	72.80	72.64	72.48	72.32	72.16	72.00	71.84	71.68	71.51	71.35	71.19	72.8
72.9	72.90	72.74	72.58	72.42	72.26	72.10	71.94	71.78	71.61	71.45	71.29	72.9
73.0	73.00	72.84	72.68	72.52	72.36	72.20	72.04	71.88	71.72	71.55	71.39	73.0
73.1	73.10	72.94	72.78	72.62	72.46	72.30	72.14	71.98	71.82	71.65	71.49	73.1
73.2	73.20	73.04	72.88	72.72	72.56	72.40	72.24	72.08	71.92	71.76	71.59	73.2
73.3	73.30	73.14	72.98	72.82	72.66	72.50	72.34	72.18	72.02	71.86	71.69	73.3
73.4	73.40	73.24	73.08	72.92	72.76	72.60	72.44	72.28	72.12	71.96	71.80	73.4
73.5	73.50	73.34	73.18	73.02	72.86	72.70	72.54	72.38	72.22	72.06	71.90	73.5
73.6	73.60	73.44	73.28	73.12	72.96	72.80	72.64	72.48	72.32	72.16	72.00	73.6
73.7	73.70	73.54	73.38	73.22	73.06	72.90	72.74	72.58	72.42	72.26	72.10	73.7
73.8	73.80	73.64	23.48	73.32	73.16	73.01	72.84	72.68	72.52	72.36	72.20	73.8
73.9	73.90	73.74	73.58	73.42	73.27	73.11	72.95	72.79	72.62	72.46	72.30	73.9
74.0	74.00	73.84	73.68	73.52	73.37	73.21	73.05	72.89	72.73	72.57	72.40	74.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
74.0	74.00	73.84	73.68	73.52	73.37	73.21	73.05	72.89	72.73	72.57	72.40	74.0
74.1	74.10	73.94	73.78	73.63	73.47	73.31	73.15	72.99	72.83	72.67	72.51	74.1
74.2	74.20	74.04	73.88	73.73	73.57	73.41	73.25	73.09	72.93	72.77	72.61	74.2
74.3	74.30	74.14	73.98	73.83	73.67	73.51	73.35	73.19	73.03	72.87	72.71	74.3
74.4	74.40	74.24	74.08	73.93	73.77	73.61	73.45	73.29	73.13	72.97	72.81	74.4
74.5	74.50	74.34	74.18	74.03	73.87	73.71	73.55	73.39	73.23	73.07	72.91	74.5
74.6	74.60	74.44	74.29	74.13	73.97	73.81	73.65	73.49	73.33	73.17	73.01	74.6
74.7	74.70	74.54	74.39	74.23	74.07	73.91	73.75	73.59	73.43	73.27	73.11	74.7
74.8	74.80	74.64	74.49	74.33	74.17	74.01	73.85	73.69	73.53	73.37	73.21	74.8
74.9	74.90	74.74	74.59	74.43	74.27	74.11	73.95	73.79	73.64	73.48	73.32	74.9
75.0	75.00	74.84	74.69	74.53	74.37	74.21	74.05	73.90	73.74	73.58	73.42	75.0
75.1	75.10	74.94	74.79	74.63	74.47	74.31	74.16	74.00	73.84	73.68	73.52	75.1
75.2	75.20	75.04	74.89	74.73	74.57	74.41	74.26	74.10	73.94	73.78	73.62	75.2
75.3	75.30	75.14	74.99	74.83	74.67	74.51	74.36	74.20	74.04	73.88	73.72	75.3
75.4	75.40	75.24	75.09	74.93	74.77	74.62	74.46	74.30	74.14	73.98	73.82	75.4
75.5	75.50	75.34	75.19	75.03	74.87	74.72	74.56	74.40	74.24	74.08	73.92	75.5
75.6	75.60	75.44	75.29	75.13	74.97	74.82	74.66	74.50	74.34	74.18	74.03	75.6
75.7	75.70	75.54	75.39	75.23	75.07	74.92	74.76	74.60	74.44	74.29	74.13	75.7
75.8	75.80	75.64	75.49	75.33	75.18	75.02	74.86	74.70	74.55	74.39	74.23	75.8
75.9	75.90	75.74	75.59	75.43	75.28	75.12	74.96	74.80	74.65	74.49	74.33	75.9
76.0	76.00	75.84	75.69	75.53	75.38	75.22	75.06	74.91	74.75	74.59	74.43	76.0
76.1	76.10	75.94	75.79	75.63	75.48	75.32	75.16	75.01	74.85	74.69	74.53	76.1
76.2	76.20	76.04	75.89	75.73	75.58	75.42	75.26	75.11	74.95	74.79	74.63	76.2
76.3	76.30	76.15	75.99	75.83	75.68	75.52	75.36	75.21	75.05	74.89	74.73	76.3
76.4	76.40	76.25	76.09	75.93	75.78	75.62	75.47	75.31	75.15	74.99	74.84	76.4
76.5	76.50	76.35	76.19	76.03	75.88	75.72	75.57	75.41	75.25	75.10	74.94	76.5
76.6	76.60	76.45	76.29	76.14	75.98	75.82	75.67	75.51	75.35	75.20	75.04	76.6
76.7	76.70	76.55	76.39	76.24	76.08	75.92	75.77	75.61	75.45	75.30	75.14	76.7
76.8	76.80	76.65	76.49	76.34	76.18	76.03	75.87	75.71	75.56	75.40	75.24	76.8
76.9	76.90	76.75	76.59	75.44	76.28	76.13	75.97	75.81	75.66	75.50	75.34	76.9
77.0	77.00	76.85	76.69	76.54	76.38	76.23	76.07	75.91	75.76	75.60	75.44	77.0
77.1	77.10	76.95	76.79	76.54	76.48	76.33	76.17	76.02	75.86	75.70	75.55	77.1
77.2	77.20	77.05	76.89	76.74	76.58	76.43	76.27	76.12	75.96	75.80	75.65	77.2
77.3	77.30	77.15	76.99	76.84	76.68	76.53	76.37	76.22	76.06	76.91	75.75	77.3
77.4	77.40	77.25	77.09	76.94	76.78	76.63	76.47	76.32	76.16	76.01	75.85	77.4
77.5	77.50	77.35	77.19	77.04	76.88	76.73	76.57	76.42	76.26	76.11	75.95	77.5
77.6	77.60	77.45	77.29	77.14	76.99	76.83	76.68	76.52	76.36	76.21	76.05	77.6
77.7	77.70	77.55	77.39	77.24	77.09	76.93	76.78	76.62	76.47	76.31	76.15	77.7
77.8	77.80	77.65	77.49	77.34	77.19	77.03	76.88	76.72	76.57	76.41	76.26	77.8
77.9	77.90	77.75	77.59	77.44	77.29	77.13	76.98	76.82	76.67	76.51	76.36	77.9
78.0	78.00	77.85	77.69	77.54	77.39	77.23	77.08	76.92	76.77	76.61	76.46	78.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
78.0	78.00	77.85	77.69	77.54	77.39	77.23	77.08	76.92	76.77	76.61	76.46	78.0
78.1	78.10	77.95	77.79	77.64	77.49	77.33	77.18	77.03	76.87	76.72	76.56	78.1
78.2	78.20	78.05	77.89	77.74	77.59	77.43	77.28	77.13	76.97	76.82	76.66	78.2
78.3	78.30	78.15	78.00	77.84	77.69	77.54	77.38	77.23	77.07	76.92	76.76	78.3
78.4	78.40	78.25	78.10	77.94	77.79	77.64	77.48	77.33	77.17	77.02	76.86	78.4
78.5	78.50	78.35	78.20	78.04	77.89	77.74	77.58	77.43	77.27	77.12	76.97	78.5
78.6	78.60	78.45	78.30	78.14	77.99	77.84	77.68	77.53	77.38	77.22	77.07	78.6
78.7	78.70	78.55	78.40	78.24	78.09	77.94	77.79	77.63	77.48	77.32	77.17	78.7
78.8	78.80	78.65	78.50	78.34	78.19	78.04	77.89	77.73	77.58	77.42	77.27	78.8
78.9	78.90	78.75	78.60	78.44	78.29	78.14	77.99	77.83	77.68	77.53	77.37	78.9
79.0	79.00	78.85	78.70	78.55	78.39	78.24	78.09	77.93	77.78	77.63	77.47	79.0
79.1	79.10	78.95	78.80	78.65	78.49	78.34	78.19	78.04	77.88	77.73	77.57	79.1
79.2	79.20	79.05	78.90	78.75	78.59	78.44	78.29	78.14	77.98	77.83	77.68	79.2
79.3	79.30	79.15	79.00	78.85	78.69	78.54	78.39	78.24	78.08	77.93	77.78	79.3
79.4	79.40	79.25	79.10	78.95	78.80	78.64	78.49	78.34	78.19	78.03	77.88	79.4
79.5	79.50	79.35	79.20	79.05	78.90	78.74	78.59	78.44	78.29	78.13	77.98	79.5
79.6	79.60	79.45	79.30	79.15	79.00	78.84	78.69	78.54	78.39	78.23	78.08	79.6
79.7	79.70	79.55	79.40	79.25	79.10	78.95	78.79	78.64	78.49	78.34	78.18	79.7
79.8	79.80	79.65	79.50	79.35	79.20	79.05	78.89	78.74	78.59	78.44	78.28	79.8
79.9	79.90	79.75	79.60	79.45	79.30	79.15	79.00	78.84	78.69	78.54	78.39	79.9
80.0	80.00	79.85	79.70	79.55	79.40	79.25	79.10	78.94	78.79	78.64	78.49	80.0
80.1	80.10	79.95	79.80	79.65	79.50	79.35	79.20	79.05	78.89	78.74	78.59	80.1
80.2	80.20	80.05	79.90	79.75	79.60	79.45	79.30	79.15	78.99	78.84	78.69	80.2
80.3	80.30	80.15	80.00	79.85	79.70	79.55	79.40	79.25	79.10	78.94	78.79	80.3
80.4	80.40	80.25	80.10	79.95	79.80	79.65	79.50	79.35	79.20	79.05	78.89	80.4
80.5	80.50	80.35	80.20	80.05	79.90	79.75	79.60	79.45	79.30	79.15	78.99	80.5
80.6	80.60	80.45	80.30	80.15	80.00	79.85	79.70	79.55	79.40	79.25	79.10	80.6
80.7	80.70	80.55	80.40	80.25	80.10	79.95	79.80	79.65	79.50	79.35	79.20	80.7
80.8	80.80	80.65	80.50	80.35	80.20	80.05	79.90	79.75	79.60	79.45	79.30	80.8
80.9	80.90	80.75	80.60	80.45	80.30	80.15	80.00	79.85	79.70	79.55	79.40	80.9
81.0	81.00	80.85	80.70	80.55	80.41	80.26	80.11	79.96	79.80	79.65	79.50	81.0
81.1	81.10	80.95	80.80	80.65	80.51	80.36	80.21	80.06	79.91	79.75	79.60	81.1
81.2	81.20	81.05	80.90	80.76	80.61	80.46	80.31	80.16	80.01	79.86	79.71	81.2
81.3	81.30	81.15	81.00	80.86	80.71	80.56	80.41	80.26	80.11	79.96	79.81	81.3
81.4	81.40	81.25	81.10	80.96	80.81	80.66	80.51	80.36	80.21	80.06	79.91	81.4
81.5	81.50	81.35	81.20	81.06	80.91	80.76	80.61	80.46	80.31	80.16	80.01	81.5
81.6	81.60	81.45	81.31	81.16	81.01	80.86	80.71	80.56	80.41	80.26	80.10	81.6
81.7	81.70	81.55	81.41	81.26	81.11	80.96	80.81	80.66	80.51	80.36	80.21	81.7
81.8	81.80	81.65	81.51	81.36	81.21	81.06	80.91	80.76	80.61	80.46	80.31	81.8
81.9	81.90	81.75	81.61	81.46	81.31	81.16	81.01	80.87	80.72	80.57	80.42	81.9
82.0	82.00	81.85	81.71	81.56	81.41	81.26	81.12	80.97	80.82	80.67	80.52	82.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
82.0	82.00	81.85	81.71	81.56	81.41	81.26	81.12	80.97	80.82	80.67	80.52	82.0
82.1	82.10	81.95	81.81	81.66	81.51	81.36	81.22	81.07	80.92	80.77	80.62	82.1
82.2	82.20	82.05	81.91	81.76	81.61	81.47	81.32	81.17	81.02	80.87	80.72	82.2
82.3	82.30	82.15	82.01	81.86	81.71	81.57	81.42	81.27	81.12	80.97	80.82	82.3
82.4	82.40	82.25	82.11	81.96	81.81	81.67	81.52	81.37	81.22	81.07	80.92	82.4
82.5	82.50	82.35	82.21	82.06	81.91	81.77	81.62	81.47	81.32	81.18	81.03	82.5
82.6	82.60	82.45	82.31	82.16	82.02	81.87	81.72	81.57	81.43	81.28	81.13	82.6
82.7	82.70	82.55	82.41	82.26	82.12	81.97	81.82	81.67	81.53	81.38	81.23	82.7
82.8	82.80	82.65	82.51	82.36	82.22	82.07	81.92	81.78	81.63	81.48	81.33	82.8
82.9	82.90	82.75	82.61	82.45	82.32	82.17	82.02	81.88	81.73	81.58	81.43	82.9
83.0	83.00	82.86	82.71	82.56	82.42	82.27	82.13	81.98	81.83	81.68	81.53	83.0
83.1	83.10	82.96	82.81	82.66	82.52	82.37	82.23	82.08	81.93	81.78	81.64	83.1
83.2	83.20	83.06	82.91	82.77	82.62	82.47	82.33	82.18	82.03	81.89	81.74	83.2
83.3	83.30	83.16	83.01	82.87	82.72	82.57	82.43	82.28	82.13	81.99	81.84	83.3
83.4	83.40	83.26	83.11	82.97	82.82	82.68	82.53	82.38	82.24	82.09	81.94	83.4
83.5	83.50	83.36	83.21	83.07	82.92	82.78	82.63	82.48	82.34	82.19	82.04	83.5
83.6	83.60	83.46	83.31	83.17	83.02	82.88	82.73	82.59	82.44	82.29	82.14	83.6
83.7	83.70	83.56	83.41	83.27	83.12	82.98	82.83	82.69	82.54	82.39	82.25	83.7
83.8	83.80	83.66	83.51	83.37	83.22	83.08	82.93	82.79	82.64	82.50	82.35	83.8
83.9	83.90	83.76	83.61	83.47	83.32	83.18	83.03	82.89	82.74	82.60	82.45	83.9
84.0	84.00	83.86	83.71	83.57	83.43	83.28	83.14	82.99	82.84	82.70	82.55	84.0
84.1	84.10	83.96	83.81	83.67	83.53	83.38	83.24	83.09	82.95	82.80	82.65	84.1
84.2	84.20	84.06	83.91	83.77	83.63	83.48	83.34	83.19	83.05	82.90	82.76	84.2
84.3	84.30	84.16	84.01	83.87	83.73	83.58	83.44	83.29	83.15	83.00	82.86	84.3
84.4	84.40	84.26	84.12	83.97	83.83	83.68	83.54	83.40	83.25	83.11	82.96	84.4
84.5	84.50	84.36	84.22	84.07	83.93	83.79	83.64	83.50	83.35	83.21	83.06	84.5
84.6	84.60	84.46	84.32	84.17	84.03	83.89	83.74	83.60	83.45	83.31	83.16	84.6
84.7	84.70	84.56	84.42	84.27	84.13	83.99	83.84	83.70	83.56	83.41	83.27	84.7
84.8	84.80	84.66	84.52	84.37	84.23	84.09	83.95	83.80	83.66	83.51	83.37	84.8
84.9	84.90	84.76	84.62	84.47	84.33	84.19	84.05	83.90	83.76	83.61	83.47	84.9
85.0	85.00	84.86	84.72	84.58	84.43	84.29	84.15	84.00	83.86	83.72	83.57	85.0
85.1	85.10	84.96	84.82	84.68	84.53	84.39	84.25	84.11	83.96	83.82	83.57	85.1
85.2	85.20	85.06	84.92	84.78	84.63	84.49	84.35	84.21	84.06	83.92	83.77	85.2
85.3	85.30	85.16	85.02	84.88	84.74	84.59	84.45	84.31	84.16	84.02	83.88	85.3
85.4	85.40	85.26	85.12	84.98	84.84	84.69	84.55	84.41	84.27	84.12	83.98	85.4
85.5	85.50	85.36	85.22	85.08	84.94	84.80	84.65	84.51	84.37	84.22	84.08	85.5
85.6	85.60	85.46	85.32	85.18	85.04	84.90	84.75	84.61	84.47	84.33	84.18	85.6
85.7	85.70	85.56	85.42	85.28	85.14	85.00	84.86	84.71	84.57	84.43	84.28	85.7
85.8	85.80	85.66	85.52	85.38	85.24	85.10	84.96	84.82	84.67	84.53	84.39	85.8
85.9	85.90	85.76	85.62	85.48	85.34	85.20	85.06	84.92	84.77	84.63	84.49	85.9
86.0	86.00	85.86	85.72	85.58	85.44	85.30	85.16	85.02	84.88	84.73	84.59	86.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
86.0	86.00	85.86	85.72	85.58	85.44	85.30	85.16	85.02	84.88	84.73	84.59	86.0
86.1	86.10	85.96	85.82	85.68	85.54	85.40	85.26	85.12	84.98	84.84	84.69	86.1
86.2	86.20	86.06	85.92	85.78	85.64	85.50	85.36	85.22	85.08	84.94	84.80	86.2
86.3	86.30	86.16	86.02	85.88	85.74	85.60	85.46	85.32	85.18	85.04	84.90	86.3
86.4	86.40	86.26	86.12	85.98	85.85	85.71	85.57	85.42	85.28	85.14	85.00	86.4
86.5	86.50	86.36	86.22	86.09	85.95	85.81	85.67	85.53	85.39	85.24	85.10	86.5
86.6	86.60	86.46	86.32	86.19	86.05	85.91	85.77	85.63	85.49	85.35	85.20	86.6
86.7	86.70	86.56	86.42	86.29	86.15	86.01	85.87	85.73	85.59	85.45	85.31	86.7
86.8	86.80	86.66	86.53	86.39	86.25	86.11	85.97	85.83	85.69	85.55	85.41	86.8
86.9	86.90	86.76	86.63	86.49	86.35	86.21	86.07	85.93	85.79	85.65	85.51	86.9
87.0	87.00	86.86	86.73	86.59	86.45	86.31	86.17	86.03	85.89	85.75	85.61	87.0
87.1	87.10	86.96	86.83	86.69	86.55	86.41	86.27	86.14	86.00	85.86	85.72	87.1
87.2	87.20	87.06	86.93	86.79	86.65	86.51	86.38	86.24	86.10	85.96	85.82	87.2
87.3	87.30	87.16	87.03	86.89	86.75	86.62	86.48	86.34	86.20	86.06	85.92	87.3
87.4	87.40	87.26	87.13	86.99	86.85	86.72	86.58	86.44	86.30	86.16	86.02	87.4
87.5	87.50	87.36	87.23	87.09	86.96	86.82	86.68	86.54	86.40	86.26	86.12	87.5
87.6	87.60	87.46	87.33	87.19	87.06	86.92	86.78	86.64	86.51	86.37	86.23	87.6
87.7	87.70	87.57	87.43	87.29	87.16	87.02	86.88	86.75	86.61	86.47	86.33	87.7
87.8	87.80	87.67	87.53	87.39	87.26	87.12	86.98	86.85	86.71	86.57	86.43	87.8
87.9	87.90	87.77	87.63	87.50	87.36	87.22	87.09	86.95	86.81	86.67	86.53	87.9
88.0	88.00	87.87	87.73	87.60	87.46	87.32	87.19	87.05	86.91	86.78	86.64	88.0
88.1	88.10	87.97	87.83	87.70	87.56	87.43	87.29	87.15	87.02	86.88	86.74	88.1
88.2	88.20	88.07	87.93	87.80	87.66	87.53	87.39	87.25	87.12	86.98	86.84	88.2
88.3	88.30	88.17	88.03	87.90	87.76	87.63	87.49	87.36	87.22	87.08	86.94	88.3
88.4	88.40	88.27	88.13	88.00	87.86	87.73	87.59	87.46	87.32	87.18	87.05	88.4
88.5	88.50	88.37	88.23	88.10	87.97	87.83	87.70	87.56	87.42	87.29	87.15	88.5
88.6	88.60	88.47	88.33	88.20	88.07	87.93	87.80	87.66	87.53	87.39	87.25	88.6
88.7	88.70	88.57	88.44	88.30	88.17	88.03	87.90	87.76	87.63	87.49	87.36	88.7
88.8	88.80	88.67	88.54	88.40	88.27	88.14	88.00	87.87	87.73	87.59	87.46	88.8
88.9	88.90	88.77	88.64	88.50	88.37	88.24	88.10	87.97	87.83	87.70	87.56	88.9
89.0	89.00	88.87	88.74	88.60	88.47	88.34	88.20	88.07	87.93	87.80	87.66	89.0
89.1	89.10	88.97	88.84	88.71	88.57	88.44	88.31	88.17	88.04	87.90	87.77	89.1
89.2	89.20	89.07	88.94	88.81	88.67	88.54	88.41	88.27	88.14	88.00	87.87	89.2
89.3	89.30	89.17	89.04	88.91	88.77	88.64	88.51	88.38	88.24	88.11	87.97	89.3
89.4	89.40	89.27	89.14	89.01	88.88	88.74	88.61	88.48	88.34	88.21	88.07	89.4
89.5	89.50	89.37	89.24	89.11	88.98	88.85	88.71	88.58	88.45	88.31	88.18	89.5
89.6	89.60	89.47	89.34	89.21	89.08	88.95	88.81	88.68	88.55	88.41	88.28	89.6
89.7	89.70	89.57	89.44	89.31	89.18	89.05	88.92	88.78	88.65	88.52	88.38	89.7
89.8	89.80	89.67	89.54	89.41	89.28	89.15	89.02	88.89	88.75	88.62	88.49	89.8
89.9	89.90	89.77	89.64	89.51	89.38	89.25	89.12	88.99	88.86	88.72	88.59	89.9
90.0	90.00	89.87	89.74	89.61	89.48	89.35	89.22	89.09	88.96	88.83	88.69	90.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
90.0	90.00	89.87	89.74	89.61	89.48	89.35	89.22	89.09	88.96	88.83	88.69	90.0
90.1	90.10	89.97	89.84	89.71	89.58	89.45	89.32	89.19	89.06	88.93	88.80	90.1
90.2	90.20	90.07	89.94	89.82	89.69	89.56	89.43	89.29	89.16	89.03	88.90	90.2
90.3	90.30	90.17	90.04	89.92	89.79	89.66	89.53	89.40	89.27	89.13	89.00	90.3
90.4	90.40	90.27	90.15	90.02	89.89	89.76	89.63	89.50	89.37	89.24	89.10	90.4
90.5	90.50	90.37	90.25	90.12	89.99	89.86	89.73	89.60	89.47	89.34	89.21	90.5
90.6	90.60	90.47	90.35	90.22	90.09	89.96	89.83	89.70	89.57	89.44	89.31	90.6
90.7	90.70	90.57	90.45	90.32	90.19	90.06	89.93	89.81	89.68	89.54	89.41	90.7
90.8	90.80	90.67	90.55	90.42	90.29	90.17	90.04	89.91	89.78	89.65	89.52	90.8
90.9	90.90	90.77	90.65	90.52	90.39	90.27	90.14	90.01	89.88	89.75	89.62	90.9
91.0	91.00	90.87	90.75	90.62	90.50	90.37	90.24	90.11	89.98	89.85	89.72	91.0
91.1	91.10	90.98	90.85	90.72	90.60	90.47	90.34	90.21	90.09	89.96	89.83	91.1
91.2	91.20	91.08	90.95	90.82	90.70	90.57	90.44	90.32	90.19	90.06	89.93	91.2
91.3	91.30	91.18	91.05	90.93	90.80	90.67	90.55	90.42	90.29	90.16	90.03	91.3
91.4	91.40	91.28	91.15	91.03	90.90	90.78	90.65	90.52	90.39	90.27	90.14	91.4
91.5	91.50	91.38	91.25	91.13	91.00	90.88	90.75	90.62	90.50	90.37	90.24	91.5
91.6	91.60	91.48	91.35	91.23	91.10	90.98	90.85	90.73	90.60	90.47	90.34	91.6
91.7	91.70	91.58	91.45	91.33	91.21	91.08	90.96	90.83	90.70	90.58	90.45	91.7
91.8	91.80	91.68	91.55	91.43	91.31	91.18	91.06	90.93	90.81	90.68	90.55	91.8
91.9	91.90	91.78	91.66	91.53	91.41	91.28	91.16	91.03	90.91	90.78	90.65	91.9
92.0	92.00	91.88	91.76	91.63	91.51	91.39	91.26	91.14	91.01	90.88	90.76	92.0
92.1	92.10	91.98	91.86	91.73	91.61	91.49	91.36	91.24	91.11	90.99	90.86	92.1
92.2	92.20	92.08	91.96	91.84	91.71	91.59	91.47	91.34	91.22	91.09	90.97	92.2
92.3	92.30	92.18	92.06	91.94	91.81	91.69	91.57	91.44	91.32	91.19	91.07	92.3
92.4	92.40	92.28	92.16	92.04	91.92	91.79	91.67	91.55	91.42	91.30	91.17	92.4
92.5	92.50	92.38	92.26	92.14	92.02	91.90	91.77	91.65	91.53	91.40	91.28	92.5
92.6	92.60	92.48	92.36	92.24	92.12	92.00	91.87	91.75	91.63	91.50	91.38	92.6
92.7	92.70	92.58	92.46	92.34	92.22	92.10	91.98	91.85	91.73	91.61	91.48	92.7
92.8	92.80	92.68	92.56	92.44	92.32	92.20	92.08	91.96	91.83	91.71	91.59	92.8
92.9	92.90	92.78	92.66	92.54	92.42	92.30	92.18	92.06	91.94	91.81	91.69	92.9
93.0	93.00	92.88	92.76	92.64	92.53	92.40	92.28	92.16	92.04	91.92	91.80	93.0
93.1	93.10	92.98	92.86	92.75	92.63	92.51	92.39	92.27	92.14	92.02	91.90	93.1
93.2	93.20	93.08	92.97	92.85	92.73	92.61	92.49	92.37	92.25	92.13	92.00	93.2
93.3	93.30	93.18	93.07	92.95	92.83	92.71	92.59	92.47	92.35	92.23	92.11	93.3
93.4	93.40	93.28	93.17	93.05	92.93	92.81	92.69	92.57	92.45	92.33	92.22	93.4
93.5	93.50	93.38	93.27	93.15	93.03	92.91	92.80	92.68	92.56	92.44	92.31	93.5
93.6	93.60	93.48	93.37	93.25	93.13	93.02	92.90	92.78	92.66	92.54	92.42	93.6
93.7	93.70	93.58	93.47	93.35	93.24	93.12	93.00	92.88	92.76	92.64	92.52	93.7
93.8	93.80	93.69	93.57	93.45	93.34	93.22	93.10	92.99	92.87	92.75	92.63	93.8
93.9	93.90	93.79	93.67	93.56	93.44	93.32	93.21	93.09	92.97	92.85	92.73	93.9
94.0	94.00	93.89	93.77	93.66	93.54	93.43	93.31	93.19	93.07	92.95	92.84	94.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
94.0	94.00	93.89	93.77	93.66	93.54	93.43	93.31	93.19	93.07	92.95	92.84	94.0
94.1	94.10	93.99	93.87	93.76	93.64	93.53	93.41	93.29	93.18	93.06	92.94	94.1
94.2	94.20	94.09	93.97	93.86	93.74	93.63	93.51	93.40	93.28	93.16	93.04	94.2
94.3	94.30	94.19	94.07	93.96	93.85	93.73	93.62	93.50	93.38	93.27	93.15	94.3
94.4	94.40	94.29	94.18	94.06	93.95	93.83	93.72	93.60	93.49	93.37	93.25	94.4
94.5	94.50	94.39	94.28	94.16	94.05	93.94	93.82	93.71	93.59	93.47	93.36	94.5
94.6	94.60	94.49	94.38	94.26	94.15	94.04	93.92	93.81	93.69	93.58	93.46	94.6
94.7	94.70	94.59	94.48	94.37	94.25	94.14	94.03	93.91	93.80	93.68	93.57	94.7
94.8	94.80	94.69	94.58	94.47	94.36	94.24	94.13	94.02	93.90	93.79	93.67	94.8
94.9	94.90	94.79	94.68	94.57	94.46	94.34	94.23	94.12	94.00	93.89	93.77	94.9
95.0	95.00	94.89	94.78	94.67	94.56	94.45	94.33	94.22	94.11	93.99	93.88	95.0
95.1	95.10	94.99	94.88	94.77	94.66	94.55	94.44	94.32	94.21	94.10	93.98	95.1
95.2	95.20	95.09	94.98	94.87	94.76	94.65	94.54	94.43	94.32	94.20	94.09	95.2
95.3	95.30	95.19	95.08	94.97	94.86	94.75	94.64	94.53	94.42	94.31	94.19	95.3
95.4	95.40	95.29	95.18	95.08	94.97	94.86	94.75	94.63	94.52	94.41	94.30	95.4
95.5	95.50	95.39	95.29	95.18	95.07	94.96	94.85	94.74	94.63	94.51	94.40	95.5
95.6	95.60	95.49	95.39	95.28	95.17	95.06	94.95	94.84	94.73	94.62	94.51	95.6
95.7	95.70	95.59	95.49	95.38	95.27	95.16	95.05	94.94	94.83	94.72	94.61	95.7
95.8	95.80	95.69	95.59	95.48	95.37	95.27	95.17	95.05	94.94	94.83	94.72	95.8
95.9	95.90	95.79	95.69	95.58	95.48	95.37	95.26	95.15	95.04	94.93	94.82	95.9
96.0	96.00	95.90	95.79	95.68	95.58	95.47	95.36	95.25	95.15	95.04	94.93	96.0
96.1	96.10	96.00	95.89	95.79	95.68	95.57	95.47	95.36	95.25	95.14	95.03	96.1
96.2	96.20	96.10	95.99	95.89	95.78	95.68	95.57	95.46	95.35	95.25	95.14	96.2
96.3	96.30	96.20	96.09	95.99	95.88	95.78	95.67	95.57	95.46	95.35	95.24	96.3
96.4	96.40	96.30	96.19	96.09	95.99	95.88	95.77	95.67	95.56	95.45	95.35	96.4
96.5	96.50	96.40	96.30	96.19	96.09	95.98	95.88	95.77	95.67	95.56	95.45	96.5
96.6	96.60	96.50	96.40	96.29	96.19	96.09	95.98	95.88	95.77	95.66	95.56	96.6
96.7	96.70	96.60	96.50	96.39	96.29	96.19	96.08	95.98	95.87	95.77	95.66	96.7
96.8	96.80	96.70	96.60	96.50	96.39	96.29	96.19	96.08	95.98	95.87	95.77	96.8
96.9	96.90	96.80	96.70	96.60	96.50	96.39	96.29	96.19	96.08	95.98	95.87	96.9
97.0	97.00	96.90	96.80	96.70	96.60	96.50	96.39	96.29	96.19	96.08	95.98	97.0
97.1	97.10	97.00	96.90	96.80	96.70	96.60	96.50	96.39	96.29	96.19	96.08	97.1
97.2	97.20	97.10	97.00	96.90	96.80	96.70	96.60	96.50	96.40	96.29	96.19	97.2
97.3	97.30	97.20	97.10	97.00	96.90	96.80	96.70	96.60	96.50	96.40	96.29	97.3
97.4	97.40	97.30	97.20	97.11	97.01	96.91	96.81	96.71	96.60	96.50	96.40	97.4
97.5	97.50	97.40	97.31	97.21	97.11	97.01	96.91	96.81	96.71	96.61	96.50	97.5
97.6	97.60	97.50	97.41	97.31	97.21	97.11	97.01	96.91	96.81	96.71	96.61	97.6
97.7	97.70	97.60	97.51	97.41	97.31	97.22	97.12	97.02	96.92	96.82	96.72	97.7
97.8	97.80	97.70	97.61	97.51	97.42	97.32	97.22	97.12	97.02	96.92	96.82	97.8
97.9	97.90	97.81	97.71	97.61	97.52	97.42	97.32	97.23	97.13	97.03	96.93	97.9
98.0	98.00	97.91	97.81	97.72	97.62	97.52	97.43	97.33	97.23	97.13	97.03	98.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
98.0	98.00	97.91	97.81	97.72	97.62	97.52	97.43	97.33	97.23	97.13	97.03	98.0
98.1	98.10	98.01	97.91	97.82	97.72	97.63	97.53	97.43	97.34	97.24	97.14	98.1
98.2	98.20	98.11	98.01	97.92	97.83	97.73	97.63	97.54	97.44	97.34	97.25	98.2
98.3	98.30	98.21	98.12	98.02	97.93	97.83	97.74	97.64	97.55	97.45	97.35	98.3
98.4	38.40	98.31	98.22	98.12	98.03	97.94	97.84	97.75	97.65	97.55	97.46	98.4
98.5	98.50	98.41	98.32	98.23	98.13	98.04	97.95	97.85	97.76	97.66	97.56	98.5
98.6	98.60	98.51	98.42	98.33	98.24	98.14	98.05	97.96	97.86	97.77	97.67	98.6
98.7	98.70	98.61	98.52	98.43	98.34	98.25	98.15	98.06	97.97	97.87	97.78	98.7
98.8	98.80	98.71	98.62	98.53	98.44	98.35	98.26	98.16	98.07	97.98	97.88	98.8
98.9	98.90	98.81	98.72	98.63	98.54	98.45	98.36	98.27	98.18	98.08	97.99	98.9
99.0	99.00	98.91	98.82	98.74	98.65	98.56	98.46	98.37	98.28	98.19	98.10	99.0
99.1	99.10	99.02	98.93	98.84	98.75	98.66	98.57	98.48	98.39	98.29	98.20	99.1
99.2	99.20	99.11	99.03	98.94	98.85	98.76	98.67	98.58	98.49	98.40	98.31	99.2
99.3	99.30	99.21	99.13	99.04	98.95	98.87	98.78	98.69	98.60	98.51	98.42	99.3
99.4	99.40	99.32	99.23	99.14	99.06	98.97	98.88	98.79	98.70	98.61	98.52	99.4
99.5	99.50	99.42	99.33	99.25	99.16	99.07	98.99	98.90	98.81	98.72	98.63	99.5
99.6	99.60	99.52	99.43	99.35	99.26	99.18	99.09	99.00	98.91	98.83	98.74	99.6
99.7	99.70	99.62	99.53	99.45	99.37	99.28	99.19	99.11	99.02	98.93	98.84	99.7
99.8	99.80	99.72	99.64	99.55	99.47	99.38	99.30	99.21	99.13	99.04	98.95	99.8
99.9	99.90	99.82	99.74	99.65	99.57	99.49	99.40	99.32	99.23	99.15	99.06	99.9
100.0	100.00	99.92	99.84	99.76	99.68	99.59	99.51	99.42	99.34	99.25	99.17	100.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
18.0	16.57	16.42	16.28	16.13	15.99	15.84	15.69	15.55	15.40	15.25	15.11	18.0
18.1	16.66	16.51	16.37	16.22	16.08	15.93	15.78	15.64	15.49	15.34	15.19	18.1
18.2	16.75	16.61	16.46	16.32	16.17	16.02	15.87	15.73	15.58	15.43	15.28	18.2
18.3	16.85	16.70	16.55	16.41	16.26	16.11	15.96	15.82	15.67	15.52	15.37	18.3
18.4	16.94	16.79	16.65	16.50	16.35	16.20	16.06	15.91	15.76	15.61	15.46	18.4
18.5	17.03	16.89	16.74	16.59	16.44	16.29	16.15	16.00	15.85	15.70	15.55	18.5
18.6	17.13	16.98	16.83	16.68	16.53	16.39	16.24	16.09	15.94	15.79	15.64	18.6
18.7	17.22	17.07	16.92	16.78	16.63	16.48	16.33	16.18	16.03	15.88	15.73	18.7
18.8	17.32	17.17	17.02	16.87	16.72	16.57	16.42	16.27	16.12	15.97	15.81	18.8
18.9	17.41	17.26	17.11	16.96	16.81	16.66	16.51	16.36	16.21	16.05	15.90	18.9
19.0	17.50	17.35	17.20	17.05	16.90	16.75	16.60	16.45	16.30	16.14	15.99	19.0
19.1	17.60	17.45	17.29	17.14	16.99	16.84	16.69	16.54	16.38	16.23	16.08	19.1
19.2	17.69	17.54	17.39	17.24	17.08	16.93	16.78	16.63	16.47	16.32	16.17	19.2
19.3	17.78	17.63	17.48	17.33	17.18	17.02	16.87	16.72	16.56	16.41	16.26	19.3
19.4	17.88	17.73	17.57	17.42	17.27	17.11	16.96	16.81	16.65	16.50	16.35	19.4
19.5	17.97	17.82	17.67	17.52	17.36	17.20	17.05	16.90	16.74	16.59	16.44	19.5
19.6	18.07	17.91	17.76	17.60	17.45	17.30	17.14	16.99	16.83	16.68	16.52	19.6
19.7	18.16	18.01	17.85	17.70	17.54	17.39	17.23	17.08	16.92	16.77	16.61	19.7
19.8	18.25	18.10	17.94	17.79	17.63	17.48	17.32	17.17	17.01	16.86	16.70	19.8
19.9	18.35	18.19	18.04	17.88	17.73	17.57	17.41	17.26	17.10	16.95	16.79	19.9
20.0	18.44	18.29	18.13	17.97	17.82	17.66	17.50	17.35	17.19	17.04	16.88	20.0
20.1	18.53	18.38	18.22	18.07	17.91	17.75	17.60	17.44	17.28	17.12	16.97	20.1
20.2	18.63	18.47	18.31	18.16	18.00	17.84	17.69	17.53	17.37	17.21	17.06	20.2
20.3	18.72	18.57	18.41	18.25	18.09	17.93	17.78	17.62	17.46	17.30	17.15	20.3
20.4	18.82	18.66	18.50	18.34	18.18	18.03	17.87	17.71	17.55	17.39	17.23	20.4
20.5	18.91	18.75	18.59	18.43	18.28	18.12	17.96	17.80	17.64	17.48	17.32	20.5
20.6	19.00	18.85	18.69	18.53	18.37	18.21	18.05	17.89	17.73	17.57	17.41	20.6
20.7	19.10	18.94	18.78	18.62	18.46	18.30	18.14	17.98	17.82	17.66	17.50	20.7
20.8	19.19	19.03	18.87	18.71	18.55	18.39	18.23	18.07	17.91	17.75	17.59	20.8
20.9	19.29	19.13	18.97	18.80	18.64	18.48	18.32	18.16	18.00	17.84	17.68	20.9
21.0	19.38	19.22	19.06	18.90	18.74	18.57	18.41	18.25	18.09	17.93	17.77	21.0
21.1	19.47	19.31	19.15	18.99	18.83	18.67	18.50	18.34	18.18	18.02	17.86	21.1
21.2	19.57	19.41	19.24	19.08	18.92	18.76	18.60	18.43	18.27	18.11	17.95	21.2
21.3	19.66	19.50	19.34	19.17	19.01	18.85	18.69	18.52	18.36	18.20	18.04	21.3
21.4	19.76	19.59	19.43	19.27	19.10	18.94	18.78	18.61	18.45	18.29	18.13	21.4
21.5	19.85	19.69	19.52	19.36	19.20	19.03	18.87	18.71	18.54	18.38	18.22	21.5
21.6	19.95	19.78	19.62	19.45	19.29	19.12	18.96	18.80	18.63	18.47	18.30	21.6
21.7	20.04	19.87	19.71	19.55	19.38	19.22	19.05	18.89	18.72	18.56	18.39	21.7
21.8	20.13	19.97	19.80	19.64	19.47	19.31	19.14	18.98	18.81	18.65	18.48	21.8
21.9	20.23	20.06	19.90	19.73	19.56	19.40	19.23	19.07	18.90	18.74	18.57	21.9
22.0	20.32	20.16	19.99	19.82	19.66	19.49	19.33	19.16	18.99	18.83	18.66	22.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
22.0	20.32	20.16	19.99	19.82	19.66	19.49	19.33	19.16	18.99	18.83	18.66	22.0
22.1	20.42	20.25	20.08	19.92	19.75	19.58	19.42	19.25	19.08	18.92	18.75	22.1
22.2	20.51	20.34	20.18	20.01	19.84	19.68	19.51	19.34	19.17	19.01	18.84	22.2
22.3	20.61	20.44	20.27	20.10	19.93	19.77	19.60	19.43	19.27	19.10	18.93	22.3
22.4	20.70	20.53	20.36	20.20	20.03	19.86	19.69	19.52	19.36	19.19	19.02	22.4
22.5	20.80	20.63	20.46	20.29	20.12	19.95	19.78	19.61	19.45	19.28	19.11	22.5
22.6	20.89	20.72	20.55	20.38	20.21	20.04	19.87	19.71	19.54	19.37	19.20	22.6
22.7	20.98	20.81	20.64	20.47	20.30	20.14	19.97	19.80	19.63	19.46	19.29	22.7
22.8	21.08	20.91	20.74	20.57	20.40	20.23	20.06	19.89	19.72	19.55	19.38	22.8
22.9	21.17	21.00	20.83	20.66	20.49	20.32	20.15	19.98	19.81	19.64	19.47	22.9
23.0	21.27	21.10	20.93	20.75	20.58	20.41	20.24	20.07	19.90	19.73	19.56	23.0
23.1	21.36	21.19	21.02	20.85	20.68	20.50	20.33	20.16	19.99	19.82	19.65	23.1
23.2	21.46	21.29	21.11	20.94	20.77	20.60	20.43	20.25	20.08	19.91	19.74	23.2
23.3	21.55	21.38	21.21	21.03	20.86	20.69	20.52	20.35	20.17	20.00	19.83	23.3
23.4	21.65	21.47	21.30	21.13	20.95	20.78	20.61	20.44	20.27	20.09	19.92	23.4
23.5	21.74	21.57	21.39	21.22	21.05	20.87	20.70	20.53	20.36	20.18	20.01	23.5
23.6	21.84	21.66	21.49	21.31	21.14	20.97	20.79	20.62	20.45	20.28	20.10	23.6
23.7	21.93	21.76	21.58	21.41	21.23	21.06	20.89	20.71	20.54	20.37	20.19	23.7
23.8	22.03	21.85	21.68	21.50	21.33	21.15	20.98	20.80	20.63	20.46	20.28	23.8
23.9	22.12	21.95	21.77	21.60	21.42	21.25	21.07	20.90	20.72	20.55	20.37	23.9
24.0	22.22	22.04	21.87	21.69	21.51	21.34	21.16	20.99	20.81	20.64	20.47	24.0
24.1	22.31	22.14	21.96	21.78	21.61	21.43	21.26	21.08	20.91	20.73	20.56	24.1
24.2	22.41	22.23	22.05	21.88	21.70	21.52	21.35	21.17	21.00	20.82	20.65	24.2
24.3	22.50	22.33	22.15	21.97	21.79	21.62	21.44	21.26	21.09	20.91	20.74	24.3
24.4	22.60	22.42	22.24	22.06	21.89	21.71	21.53	21.36	21.18	21.00	20.83	24.4
24.5	22.69	22.52	22.34	22.16	21.98	21.80	21.63	21.45	21.27	21.10	20.92	24.5
24.6	22.79	22.61	22.43	22.25	22.07	21.90	21.72	21.54	21.36	21.19	21.01	24.6
24.7	22.88	22.71	22.53	22.35	22.17	21.99	21.81	21.63	21.46	21.28	21.10	24.7
24.8	22.98	22.80	22.62	22.44	22.26	22.08	21.90	21.73	21.55	21.37	21.19	24.8
24.9	23.08	22.90	22.72	22.54	22.36	22.18	22.00	21.82	21.64	21.46	21.29	24.9
25.0	23.17	22.99	22.81	22.63	22.45	22.27	22.09	21.91	21.73	21.55	21.38	25.0
25.1	23.27	23.09	22.90	22.72	22.54	22.36	22.18	22.00	21.83	21.65	21.47	25.1
25.2	23.36	23.18	23.00	22.82	22.64	22.46	22.28	22.10	21.92	21.74	21.56	25.2
25.3	23.46	23.28	23.09	22.91	22.73	22.55	22.37	22.19	22.01	21.83	21.65	25.3
25.4	23.55	23.37	23.19	23.01	22.83	22.64	22.46	22.28	22.10	21.92	21.74	25.4
25.5	23.65	23.47	23.28	23.10	22.92	22.74	22.56	22.38	22.20	22.01	21.83	25.5
25.6	23.75	23.56	23.38	23.20	23.01	22.83	22.65	22.47	22.29	22.11	21.93	25.6
25.7	23.84	23.66	23.47	23.29	23.11	22.93	22.74	22.56	22.38	22.20	22.02	25.7
25.8	23.94	23.75	23.57	23.39	23.20	23.02	22.84	22.66	22.47	22.29	22.11	25.8
25.9	24.03	23.85	23.66	23.48	23.30	23.11	22.93	22.75	22.57	22.38	22.20	25.9
26.0	24.13	23.94	23.76	23.58	23.39	23.21	23.03	22.84	22.66	22.48	22.30	26.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
26.0	24.13	23.94	23.76	23.58	23.39	23.21	23.03	22.84	22.66	22.48	22.30	26.0
26.1	24.23	24.04	23.86	23.67	23.49	23.30	23.12	22.94	22.75	22.57	22.39	26.1
26.2	24.32	24.14	23.95	23.77	23.58	23.40	23.21	23.03	22.85	22.66	22.48	26.2
26.3	24.42	24.23	24.05	23.86	23.68	23.49	23.31	23.12	22.94	22.76	22.57	26.3
26.4	24.51	24.33	24.14	23.96	23.77	23.59	23.40	23.22	23.03	22.85	22.66	26.4
26.5	24.61	24.42	24.24	24.05	23.87	23.68	23.49	23.31	23.13	22.94	22.76	26.5
26.6	24.71	24.52	24.33	24.15	23.96	23.77	23.59	23.40	23.22	23.03	22.85	26.6
26.7	24.80	24.62	24.43	24.24	24.06	23.87	23.68	23.50	23.31	23.13	22.94	26.7
26.8	24.90	24.71	24.52	24.34	24.15	23.96	23.78	23.59	23.41	23.22	23.04	26.8
26.9	25.00	24.81	24.62	24.43	24.25	24.06	23.87	23.69	23.50	23.31	23.13	26.9
27.0	25.09	24.90	24.72	24.53	24.34	24.15	23.97	23.78	23.59	23.41	23.22	27.0
27.1	25.19	25.00	24.81	24.62	24.44	24.25	24.06	23.87	23.69	23.50	23.32	27.1
27.2	25.29	25.10	24.91	24.72	24.53	24.34	24.16	23.97	23.78	23.59	23.41	27.2
27.3	25.38	25.19	25.00	24.81	24.63	24.44	24.25	24.06	23.88	23.69	23.50	27.3
27.4	25.48	25.29	25.10	24.91	24.72	24.53	24.34	24.16	23.97	23.78	23.59	27.4
27.5	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	23.88	23.69	27.5
27.6	25.67	25.48	25.29	25.10	24.91	24.72	24.53	24.35	24.16	23.97	23.78	27.6
27.7	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	23.88	27.7
27.8	25.87	25.68	25.48	25.29	25.10	24.91	24.72	24.54	24.35	24.16	23.97	27.8
27.9	25.96	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	27.9
28.0	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	24.54	24.35	24.16	28.0
28.1	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	28.1
28.2	26.25	26.06	25.87	25.68	25.49	25.30	25.11	24.91	24.72	24.53	24.35	28.2
28.3	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	28.3
28.4	26.45	26.26	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	24.53	28.4
28.5	26.55	26.35	26.16	25.97	25.78	25.58	25.39	25.20	25.01	24.82	24.63	28.5
28.6	26.64	26.45	26.26	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	28.6
28.7	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	28.7
28.8	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.49	25.29	25.10	24.91	28.8
28.9	26.94	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	28.9
29.0	27.03	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.48	25.29	25.10	29.0
29.1	27.13	26.94	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	29.1
29.2	27.23	27.03	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.48	25.29	29.2
29.3	27.33	27.13	26.94	26.74	26.55	26.35	26.16	25.96	25.77	25.58	25.39	29.3
29.4	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.87	25.67	25.48	29.4
29.5	27.52	27.33	27.13	26.93	26.74	26.55	26.35	26.16	25.96	25.77	25.58	29.5
29.6	27.62	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.87	25.67	29.6
29.7	27.72	27.52	27.32	27.13	26.93	26.74	26.54	26.35	26.15	25.96	25.77	29.7
29.8	27.82	27.62	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.86	29.8
29.9	27.91	27.72	27.52	27.32	27.13	26.93	26.74	26.54	26.35	26.15	25.96	29.9
30.0	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	26.05	30.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
30.0	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	26.05	30.0
30.1	28.11	27.91	27.71	27.52	27.32	27.13	26.93	26.73	26.54	26.34	26.15	30.1
30.2	28.21	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	30.2
30.3	28.31	28.11	27.91	27.71	27.52	27.32	27.12	26.93	26.73	26.54	26.34	30.3
30.4	28.40	28.21	28.01	27.81	27.61	27.42	27.22	27.02	26.83	26.63	26.44	30.4
30.5	28.50	28.30	28.11	27.91	27.71	27.51	27.32	27.12	26.92	26.73	26.53	30.5
30.6	28.60	28.40	28.20	28.01	27.81	27.61	27.41	27.22	27.02	26.83	26.63	30.6
30.7	28.70	28.50	28.30	28.10	27.91	27.71	27.51	27.31	27.12	26.92	26.73	30.7
30.8	28.80	28.60	28.40	28.20	28.00	27.81	27.61	27.41	27.21	27.02	26.82	30.8
30.9	28.90	28.70	28.50	28.30	28.10	27.90	27.71	27.51	27.31	27.11	26.92	30.9
31.0	28.99	28.79	28.60	28.40	28.20	28.00	27.80	27.61	27.41	27.21	27.01	31.0
31.1	29.09	28.89	28.69	28.50	28.30	28.10	27.90	27.70	27.51	27.31	27.11	31.1
31.2	29.19	28.99	28.79	28.59	28.39	28.20	28.00	27.80	27.60	27.41	27.21	31.2
31.3	29.29	29.09	28.89	28.69	28.49	28.29	28.10	27.90	27.70	27.50	27.30	31.3
31.4	29.39	29.19	28.99	28.79	28.59	28.39	28.19	27.99	27.80	27.60	27.40	31.4
31.5	29.49	29.29	29.09	28.89	28.69	28.49	28.29	28.09	27.89	27.70	27.50	31.5
31.6	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.19	27.99	27.79	27.60	31.6
31.7	29.68	29.48	29.28	29.08	28.88	28.69	28.49	28.29	28.09	27.89	27.69	31.7
31.8	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.39	28.19	27.99	27.79	31.8
31.9	29.88	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.28	28.09	27.89	31.9
32.0	29.98	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.18	27.98	32.0
32.1	30.08	29.88	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.28	28.08	32.1
32.2	30.18	29.98	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.18	32.2
32.3	30.28	30.08	29.88	29.67	29.47	29.27	29.07	28.87	28.68	28.48	28.28	32.3
32.4	30.38	30.18	29.97	29.77	29.57	29.37	29.17	28.97	28.77	28.57	28.37	32.4
32.5	30.48	30.27	30.07	29.87	29.67	29.47	29.27	29.07	28.87	28.67	28.47	32.5
32.6	30.57	30.37	30.17	29.97	29.77	29.57	29.37	29.17	28.97	28.77	28.57	32.6
32.7	30.67	30.47	30.27	30.07	29.87	29.67	29.47	29.27	29.07	28.87	28.67	32.7
32.8	30.77	30.57	30.37	30.17	29.97	29.77	29.57	29.37	29.17	28.97	28.77	32.8
32.9	30.87	30.67	30.47	30.27	30.07	29.87	29.66	29.46	29.26	29.06	28.86	32.9
33.0	30.97	30.77	30.57	30.37	30.17	29.96	29.76	29.56	29.36	29.16	28.96	33.0
33.1	31.07	30.87	30.67	30.47	30.26	30.06	29.86	29.66	29.46	29.26	29.06	33.1
33.2	31.17	30.97	30.77	30.56	30.36	30.16	29.96	29.76	29.56	29.36	29.16	33.2
33.3	31.27	31.07	30.87	30.66	30.46	30.26	30.06	29.86	29.66	29.46	29.26	33.3
33.4	31.37	31.17	30.96	30.76	30.56	30.36	30.16	29.96	29.76	29.56	29.35	33.4
33.5	31.47	31.27	31.06	30.86	30.66	30.46	30.26	30.06	29.86	29.65	29.45	33.5
33.6	31.57	31.37	31.16	30.96	30.76	30.56	30.36	30.16	29.95	29.75	29.55	33.6
33.7	31.67	31.47	31.26	31.06	30.86	30.66	30.46	30.25	30.05	29.85	29.65	33.7
33.8	31.77	31.56	31.36	31.16	30.96	30.76	30.55	30.35	30.15	29.95	29.75	33.8
33.9	31.87	31.66	31.46	31.26	31.06	30.86	30.65	30.45	30.25	30.05	29.85	33.9
34.0	31.97	31.76	31.56	31.36	31.16	30.95	30.75	30.55	30.35	30.15	29.95	34.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
34.0	31.97	31.76	31.56	31.36	31.16	30.95	30.75	30.55	30.35	30.15	29.95	34.0
34.1	32.07	31.86	31.66	31.46	31.26	31.05	30.85	30.65	30.45	30.25	30.05	34.1
34.2	32.17	31.96	31.76	31.56	31.36	31.15	30.95	30.75	30.55	30.35	30.14	34.2
34.3	32.27	32.06	31.86	31.66	31.46	31.25	31.05	30.85	30.65	30.44	30.24	34.3
34.4	32.37	32.16	31.96	31.76	31.55	31.35	31.15	30.95	30.75	30.54	30.34	34.4
34.5	32.46	32.26	32.06	31.86	31.65	31.45	31.25	31.05	30.85	30.64	30.44	34.5
34.6	32.56	32.36	32.16	31.96	31.75	31.55	31.35	31.15	30.94	30.74	30.54	34.6
34.7	32.66	32.46	32.26	32.06	31.85	31.65	31.45	31.25	31.04	30.84	30.64	34.7
34.8	32.76	32.56	32.36	32.16	31.95	31.75	31.55	31.35	31.14	30.94	30.74	34.8
34.9	32.86	32.66	32.46	32.26	32.05	31.85	31.65	31.45	31.24	31.04	30.84	34.9
35.0	32.96	32.76	32.56	32.36	32.15	31.95	31.75	31.55	31.34	31.14	30.94	35.0
35.1	33.06	32.86	32.66	32.46	32.25	32.05	31.85	31.64	31.44	31.24	31.04	35.1
35.2	33.16	32.96	32.76	32.56	32.35	32.15	31.95	31.74	31.54	31.34	31.14	35.2
35.3	33.26	33.06	32.86	32.66	32.45	32.25	32.05	31.84	31.64	31.44	31.24	35.3
35.4	33.36	33.16	32.96	32.76	32.55	32.35	32.15	31.94	31.74	31.54	31.34	35.4
35.5	33.46	33.26	33.06	32.86	32.65	32.45	32.25	32.04	31.84	31.64	31.44	35.5
35.6	33.56	33.36	33.16	32.96	32.75	32.55	32.35	32.14	31.94	31.74	31.54	35.6
35.7	33.66	33.46	33.26	33.06	32.85	32.65	32.45	32.24	32.04	31.84	31.64	35.7
35.8	33.76	33.56	33.36	33.16	32.96	32.75	32.55	32.34	32.14	31.94	31.74	35.8
35.9	33.87	33.66	33.46	33.26	33.05	32.85	32.65	32.44	32.24	32.04	31.84	35.9
36.0	33.97	33.76	33.56	33.36	33.15	32.95	32.75	32.54	32.34	32.14	31.94	36.0
36.1	34.07	33.86	33.66	33.46	33.25	33.05	32.85	32.64	32.44	32.24	32.04	36.1
36.2	34.17	33.96	33.76	33.56	33.35	33.15	32.95	32.74	32.54	32.34	32.14	36.2
36.3	34.27	34.06	33.86	33.66	33.45	33.25	33.05	32.84	32.64	32.44	32.24	36.3
36.4	34.37	34.16	33.96	33.76	33.55	33.35	33.15	32.95	32.74	32.54	32.34	36.4
36.5	34.47	34.26	34.06	33.86	33.65	33.45	33.25	33.05	32.84	32.64	32.44	36.5
36.6	34.57	34.36	34.16	33.96	33.76	33.55	33.35	33.15	32.94	32.74	32.54	36.6
36.7	34.67	34.46	34.26	34.06	33.86	33.65	33.45	33.25	33.04	32.84	32.64	36.7
36.8	34.77	34.57	34.36	34.16	33.96	33.75	33.55	33.35	33.14	32.94	32.74	36.8
36.9	34.87	34.67	34.46	34.26	34.06	33.85	33.65	33.45	33.24	33.04	32.84	36.9
37.0	34.97	34.77	34.56	34.36	34.16	33.95	33.75	33.55	33.34	33.14	32.94	37.0
37.1	35.07	34.87	34.66	34.46	34.26	34.05	33.85	33.65	33.45	33.24	33.04	37.1
37.2	35.17	34.97	34.76	34.56	34.36	34.16	33.95	33.75	33.55	33.34	33.14	37.2
37.3	35.27	35.07	34.86	34.66	34.46	34.26	34.05	33.85	33.65	33.44	33.24	37.3
37.4	35.37	35.17	34.97	34.76	34.56	34.36	34.15	33.95	33.75	33.54	33.34	37.4
37.5	35.47	35.27	35.07	34.86	34.66	34.46	34.25	34.05	33.85	33.65	33.44	37.5
37.6	35.57	35.37	35.17	34.96	34.76	34.56	34.36	34.15	33.95	33.75	33.54	37.6
37.7	35.67	35.47	35.27	35.06	34.86	34.66	34.46	34.25	34.05	33.85	33.64	37.7
37.8	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	33.95	33.75	37.8
37.9	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	33.85	37.9
38.0	35.98	35.77	35.57	35.37	35.16	34.96	34.76	34.56	34.35	34.15	33.95	38.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
38.0	35.98	35.77	35.57	35.37	35.16	34.96	34.76	34.56	34.35	34.15	33.95	38.0
38.1	36.08	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	38.1
38.2	36.18	35.97	35.77	35.57	35.37	35.16	34.96	34.76	34.55	34.35	34.15	38.2
38.3	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	34.45	34.25	38.3
38.4	36.38	36.18	35.97	35.77	35.57	35.37	35.16	34.96	34.76	34.55	34.35	38.4
38.5	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	34.45	38.5
38.6	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	34.76	34.55	38.6
38.7	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	38.7
38.8	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	34.76	38.8
38.9	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	38.9
39.0	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	39.0
39.1	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	39.1
39.2	37.18	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	39.2
39.3	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	39.3
39.4	37.39	37.18	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.37	39.4
39.5	37.49	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	39.5
39.6	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	35.77	35.57	39.6
39.7	37.69	37.49	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	39.7
39.8	37.79	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	35.77	39.8
39.9	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	36.08	35.87	39.9
40.0	37.99	37.79	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	40.0
40.1	38.09	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	36.08	40.1
40.2	38.19	37.99	37.79	37.59	37.39	37.19	36.99	36.78	36.58	36.38	36.18	40.2
40.3	38.30	38.09	37.89	37.69	37.49	37.29	37.09	36.89	36.68	36.48	36.28	40.3
40.4	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.99	36.79	36.58	36.38	40.4
40.5	38.50	38.30	38.10	37.89	37.69	37.49	37.29	37.09	36.89	36.69	36.48	40.5
40.6	38.60	38.40	38.20	38.00	37.80	37.59	37.39	37.19	36.99	36.79	36.59	40.6
40.7	38.70	38.50	38.30	38.10	37.90	37.70	37.49	37.29	37.09	36.89	36.69	40.7
40.8	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.39	37.19	36.99	36.79	40.8
40.9	38.90	38.70	38.50	38.30	38.10	37.90	37.70	37.50	37.29	37.09	36.89	40.9
41.0	39.00	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.40	37.20	36.99	41.0
41.1	39.10	38.90	38.70	38.50	38.30	38.10	37.90	37.70	37.50	37.30	37.10	41.1
41.2	39.21	39.01	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.40	37.20	41.2
41.3	39.31	39.11	38.91	38.71	38.51	38.30	38.10	37.90	37.70	37.50	37.30	41.3
41.4	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.80	37.60	37.40	41.4
41.5	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	37.71	37.50	41.5
41.6	39.61	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.81	37.61	41.6
41.7	39.71	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	37.71	41.7
41.8	39.81	39.61	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.81	41.8
41.9	39.91	39.71	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	41.9
42.0	40.01	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	38.22	38.01	42.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
42.0	40.01	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	38.22	38.01	42.0
42.1	40.12	39.92	39.72	39.52	39.32	39.12	38.92	38.72	38.52	38.32	38.12	42.1
42.2	40.22	40.02	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	38.22	42.2
42.3	40.32	40.12	39.92	39.72	39.52	39.32	39.12	38.92	38.72	38.52	38.32	42.3
42.4	40.42	40.22	40.02	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	42.4
42.5	40.52	40.32	40.12	39.92	39.72	39.53	39.33	39.13	38.93	38.73	38.53	42.5
42.6	40.62	40.42	40.22	40.03	39.83	39.63	39.43	39.23	39.03	38.83	38.63	42.6
42.7	40.72	40.52	40.33	40.13	39.93	39.73	39.53	39.33	39.13	38.93	38.73	42.7
42.8	40.82	40.63	40.43	40.23	40.03	39.83	39.63	39.43	39.23	39.03	38.83	42.8
42.9	40.93	40.73	40.53	40.33	40.13	39.93	39.73	39.53	39.33	39.14	38.94	42.9
43.0	41.03	40.83	40.63	40.43	40.23	40.03	39.84	39.64	39.44	39.24	39.04	43.0
43.1	41.13	40.93	40.73	40.53	40.34	40.14	39.94	39.74	39.54	39.34	39.14	43.1
43.2	41.23	41.03	40.83	40.64	40.44	40.24	40.04	39.84	39.64	39.44	39.24	43.2
43.3	41.33	41.13	40.94	40.74	40.54	40.34	40.14	39.94	39.74	39.54	39.34	43.3
43.4	41.43	41.23	41.04	40.84	40.64	40.44	40.24	40.04	39.85	39.65	39.45	43.4
43.5	41.53	41.34	41.14	40.94	40.74	40.54	40.35	40.15	39.95	39.75	39.55	43.5
43.6	41.64	41.44	41.24	41.04	40.84	40.65	40.45	40.25	40.05	39.85	39.65	43.6
43.7	41.74	41.54	41.34	41.14	40.95	40.75	40.55	40.35	40.15	39.95	39.75	43.7
43.8	41.84	41.64	41.44	41.25	41.05	40.85	40.65	40.45	40.25	40.06	39.86	43.8
43.9	41.94	41.74	41.54	41.35	41.15	40.95	40.75	40.56	40.36	40.16	39.96	43.9
44.0	42.04	41.84	41.65	41.45	41.25	41.05	40.86	40.66	40.46	40.26	40.06	44.0
44.1	42.14	41.94	41.75	41.55	41.35	41.16	40.96	40.76	40.56	40.36	40.16	44.1
44.2	42.24	42.05	41.85	41.65	41.45	41.26	41.06	40.86	40.66	40.47	40.27	44.2
44.3	42.34	42.15	41.95	41.75	41.56	41.36	41.16	40.96	40.77	40.57	40.37	44.3
44.4	42.45	42.25	42.05	41.86	41.66	41.46	41.26	41.07	40.87	40.67	40.47	44.4
44.5	42.55	42.35	42.15	41.96	41.76	41.56	41.37	41.17	40.97	40.77	40.57	44.5
44.6	42.65	42.45	42.26	42.06	41.86	41.67	41.47	41.27	41.07	40.87	40.68	44.6
44.7	42.75	42.55	42.36	42.16	41.96	41.77	41.57	41.37	41.18	40.98	40.78	44.7
44.8	42.85	42.65	42.46	42.26	42.07	41.87	41.67	41.47	41.28	41.08	40.88	44.8
44.9	42.95	42.76	42.56	42.36	42.17	41.97	41.77	41.58	41.38	41.18	40.98	44.9
45.0	43.05	42.86	42.66	42.47	42.27	42.07	41.88	41.68	41.48	41.28	41.09	45.0
45.1	43.16	42.96	42.76	42.57	42.37	42.17	41.98	41.78	41.58	41.39	41.19	45.1
45.2	43.26	43.06	42.87	42.67	42.47	42.28	42.08	41.88	41.69	41.49	41.29	45.2
45.3	43.36	43.16	42.97	42.77	42.57	42.38	42.18	41.99	41.79	41.59	41.39	45.3
45.4	43.46	43.26	43.07	42.87	42.68	42.48	42.28	42.09	41.89	41.69	41.50	45.4
45.5	43.56	43.37	43.17	42.97	42.78	42.58	42.39	42.19	41.99	41.80	41.60	45.5
45.6	43.66	43.47	43.27	43.08	42.88	42.68	42.49	42.29	42.10	41.90	41.70	45.6
45.7	43.76	43.57	43.37	43.18	42.98	42.79	42.59	42.39	42.20	42.00	41.81	45.7
45.8	43.86	43.67	43.47	43.28	43.08	42.89	42.69	42.50	42.30	42.10	41.91	45.8
45.9	43.97	43.77	43.58	43.38	43.19	42.99	42.80	42.60	42.40	42.21	42.01	45.9
46.0	44.07	43.87	43.68	43.48	43.29	43.09	42.90	42.70	42.51	42.31	42.11	46.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
46.0	44.07	43.87	43.68	43.48	43.29	43.09	42.90	42.70	42.51	42.31	42.11	46.0
46.1	44.17	43.97	43.78	43.58	43.39	43.19	43.00	42.80	42.61	42.41	42.22	46.1
46.2	44.27	44.08	43.88	43.69	43.49	43.30	43.10	42.91	42.71	42.51	42.32	46.2
46.3	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.01	42.81	42.62	42.42	46.3
46.4	44.47	44.28	44.08	43.89	43.70	43.50	43.31	43.11	42.91	42.72	42.52	46.4
46.5	44.57	44.38	44.19	43.99	43.80	43.60	43.41	43.21	43.02	42.82	42.63	46.5
46.6	44.68	44.48	44.29	44.09	43.90	43.70	43.51	43.31	43.12	42.92	42.73	46.6
46.7	44.78	44.58	44.39	44.20	44.00	43.81	43.61	43.42	43.22	43.03	42.83	46.7
46.8	44.88	44.68	44.49	44.30	44.10	43.91	43.71	43.52	43.32	43.13	42.93	46.8
46.9	44.98	44.79	44.59	44.40	44.20	44.01	43.82	43.62	43.43	43.23	43.04	46.9
47.0	45.08	44.89	44.69	44.50	44.31	44.11	43.92	43.72	43.53	43.33	43.14	47.0
47.1	45.18	44.99	44.80	44.60	44.41	44.21	44.02	43.83	43.63	43.44	43.24	47.1
47.2	45.28	45.09	44.90	44.70	44.51	44.32	44.12	43.93	43.73	43.54	43.34	47.2
47.3	45.38	45.19	45.00	44.81	44.61	44.42	44.22	44.03	43.84	43.64	43.45	47.3
47.4	45.49	45.29	45.10	44.91	44.71	44.52	44.33	44.13	43.94	43.74	43.55	47.4
47.5	45.59	45.39	45.20	45.01	44.82	44.62	44.43	44.24	44.04	43.85	43.65	47.5
47.6	45.69	45.50	45.30	45.11	44.92	44.72	44.53	44.34	44.14	43.95	43.75	47.6
47.7	45.79	45.60	45.41	45.21	45.02	44.83	44.63	44.44	44.25	44.05	43.86	47.7
47.8	45.89	45.70	45.51	45.31	45.12	44.93	44.74	44.54	44.35	44.15	43.96	47.8
47.9	45.99	45.80	45.61	45.42	45.22	45.03	44.84	44.64	44.45	44.26	44.06	47.9
48.0	46.09	45.90	45.71	45.52	45.33	45.13	44.94	44.75	44.55	44.36	44.17	48.0
48.1	46.20	46.00	45.81	45.62	45.43	45.23	45.04	44.85	44.66	44.46	44.27	48.1
48.2	46.30	46.11	45.91	45.72	45.53	45.34	45.14	44.95	44.76	44.56	44.37	48.2
48.3	46.40	46.21	46.02	45.82	45.63	45.44	45.25	45.05	44.86	44.67	44.47	48.3
48.4	46.50	46.31	46.12	45.92	45.73	45.54	45.35	45.16	44.96	44.77	44.58	48.4
48.5	46.60	46.41	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	48.5
48.6	46.70	46.51	46.32	46.13	45.94	45.74	45.55	45.36	45.17	44.97	44.78	48.6
48.7	46.80	46.61	46.42	46.23	46.04	45.85	45.65	45.46	45.27	45.08	44.88	48.7
48.8	46.90	46.71	46.52	46.33	46.14	45.95	45.76	45.56	45.37	45.18	44.99	48.8
48.9	47.01	46.82	46.62	46.43	46.24	46.05	45.86	45.67	45.47	45.28	45.09	48.9
49.0	47.11	46.92	46.73	46.54	46.34	46.15	45.96	45.77	45.58	45.38	45.19	49.0
49.1	47.21	47.02	46.83	46.64	46.45	46.25	46.06	45.87	45.68	45.49	45.29	49.1
49.2	47.31	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	45.40	49.2
49.3	47.41	47.22	47.03	46.84	46.65	46.46	46.27	46.08	45.88	45.69	45.50	49.3
49.4	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.18	45.99	45.79	45.60	49.4
49.5	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.09	45.90	45.70	49.5
49.6	47.72	47.53	47.34	47.15	46.95	46.76	46.57	46.38	46.19	46.00	45.81	49.6
49.7	47.82	47.63	47.44	47.25	47.06	46.87	46.68	46.48	46.29	46.10	45.91	49.7
49.8	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	46.20	46.01	49.8
49.9	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	46.31	46.11	49.9
50.0	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	50.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
50.0	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	50.0
50.1	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	46.51	46.32	50.1
50.2	48.32	48.13	47.94	47.76	47.57	47.38	47.19	46.99	46.80	46.61	46.42	50.2
50.3	48.42	48.24	48.05	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.52	50.3
50.4	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	50.4
50.5	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	50.5
50.6	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	46.83	50.6
50.7	48.83	48.64	48.45	48.26	48.07	47.89	47.70	47.51	47.32	47.13	46.94	50.7
50.8	48.93	48.74	48.55	48.37	48.18	47.99	47.80	47.61	47.42	47.23	47.04	50.8
50.9	49.03	48.84	48.66	48.47	48.28	48.09	47.90	47.71	47.52	47.33	47.14	50.9
51.0	49.13	48.95	48.76	48.57	48.38	48.19	48.00	47.81	47.62	47.43	47.24	51.0
51.1	49.23	49.05	48.86	48.67	48.48	48.29	48.10	47.91	47.72	47.54	47.35	51.1
51.2	49.34	49.15	48.96	48.77	48.58	48.39	48.21	48.02	47.83	47.64	47.45	51.2
51.3	49.44	49.25	49.06	48.87	48.69	48.50	48.31	48.12	47.93	47.74	47.55	51.3
51.4	49.54	49.35	49.16	48.98	48.79	48.60	48.41	48.22	48.03	47.84	47.65	51.4
51.5	49.64	49.45	49.26	49.08	48.89	48.70	48.51	48.32	48.13	47.94	47.76	51.5
51.6	49.74	49.55	49.37	49.18	48.99	48.80	48.61	48.42	48.24	48.05	47.86	51.6
51.7	49.84	49.66	49.47	49.28	49.09	48.90	48.72	48.53	48.34	48.15	47.96	51.7
51.8	49.94	49.76	49.57	49.38	49.19	49.01	48.82	48.63	48.44	48.25	48.06	51.8
51.9	50.04	49.86	49.67	49.48	49.30	49.11	48.92	48.73	48.54	48.35	48.16	51.9
52.0	50.15	49.96	49.77	49.58	49.40	49.21	49.02	48.83	48.64	48.46	48.27	52.0
52.1	50.25	50.06	49.87	49.69	49.50	49.31	49.12	48.94	48.75	48.56	48.37	52.1
52.2	50.35	50.16	49.98	49.79	49.60	49.41	49.23	49.04	48.85	48.66	48.47	52.2
52.3	50.45	50.26	50.08	49.89	49.70	49.52	49.33	49.14	48.95	48.76	48.57	52.3
52.4	50.55	50.36	50.18	49.99	49.80	49.62	49.43	49.24	49.05	48.87	48.68	52.4
52.5	50.65	50.47	50.28	50.09	49.91	49.72	49.53	49.34	49.16	48.97	48.78	52.5
52.6	50.75	50.57	50.38	50.19	50.01	49.82	49.63	49.45	49.26	49.07	48.88	52.6
52.7	50.85	50.67	50.48	50.30	50.11	49.92	49.74	49.55	49.36	49.17	48.98	52.7
52.8	50.96	50.77	50.58	50.40	50.21	50.02	49.84	49.65	49.46	49.27	49.09	52.8
52.9	51.06	50.87	50.69	50.50	50.31	50.13	49.94	49.75	49.56	49.38	49.19	52.9
53.0	51.16	50.97	50.79	50.60	50.41	50.23	50.04	49.85	49.67	49.48	49.29	53.0
53.1	51.26	51.07	50.89	50.70	50.52	50.33	50.14	49.96	49.77	49.58	49.39	53.1
53.2	51.36	51.18	50.99	50.80	50.62	50.43	50.24	50.06	49.87	49.68	49.50	53.2
53.3	51.46	51.28	51.09	50.91	50.72	50.53	50.35	50.16	49.97	49.79	49.60	53.3
53.4	51.56	51.38	51.19	51.01	50.82	50.64	50.45	50.26	50.08	49.89	49.70	53.4
53.5	51.66	51.48	51.29	51.11	50.92	50.74	50.55	50.36	50.18	49.99	49.80	53.5
53.6	51.77	51.58	51.40	51.21	51.02	50.84	50.65	50.47	50.28	50.09	49.91	53.6
53.7	51.87	51.68	51.50	51.31	51.13	50.94	50.75	50.57	50.38	50.20	50.01	53.7
53.8	51.97	51.78	51.60	51.41	51.23	51.04	50.86	50.67	50.48	50.30	50.11	53.8
53.9	52.07	51.88	51.70	51.51	51.33	51.14	50.96	50.77	50.59	50.40	50.21	53.9
54.0	52.17	51.99	51.80	51.62	51.43	51.25	51.06	50.87	50.69	50.50	50.32	54.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
54.0	52.17	51.99	51.80	51.62	51.43	51.25	51.06	50.87	50.69	50.50	50.32	54.0
54.1	52.27	52.09	51.90	51.72	51.53	51.35	51.16	50.98	50.79	50.60	50.42	54.1
54.2	52.37	52.19	52.00	51.82	51.63	51.45	51.26	51.08	50.89	50.71	50.52	54.2
54.3	52.47	52.29	52.11	51.92	51.74	51.55	51.37	51.18	50.99	50.81	50.62	54.3
54.4	52.58	52.39	52.21	52.02	51.84	51.65	51.47	51.28	51.10	50.91	50.72	54.4
54.5	52.68	52.49	52.31	52.12	51.94	51.75	51.57	51.38	51.20	51.01	50.83	54.5
54.6	52.78	52.59	52.41	52.23	52.04	51.86	51.67	51.49	51.30	51.11	50.93	54.6
54.7	52.88	52.70	52.51	52.33	52.14	51.96	51.77	51.59	51.40	51.22	51.03	54.7
54.8	52.98	52.80	52.61	52.43	52.24	52.06	51.87	51.69	51.50	51.32	51.13	54.8
54.9	53.08	52.90	52.71	52.53	52.35	52.16	51.98	51.79	51.61	51.42	51.24	54.9
55.0	53.18	53.00	52.82	52.63	52.45	52.26	52.08	51.89	51.71	51.52	51.34	55.0
55.1	53.28	53.10	52.92	52.73	52.55	52.36	52.18	52.00	51.81	51.63	51.44	55.1
55.2	53.38	53.20	53.02	52.83	52.65	52.47	52.28	52.10	51.91	51.73	51.54	55.2
55.3	53.49	53.30	53.12	52.94	52.75	52.57	52.38	52.20	52.01	51.83	51.64	55.3
55.4	53.59	53.40	53.22	53.04	52.85	52.67	52.49	52.30	52.12	51.93	51.75	55.4
55.5	53.69	53.51	53.32	53.14	52.96	52.77	52.59	52.40	52.22	52.03	51.85	55.5
55.6	53.79	53.61	53.42	53.24	53.06	52.87	52.69	52.51	52.32	52.14	51.95	55.6
55.7	53.89	53.71	53.52	53.34	53.16	52.98	52.79	52.61	52.42	52.24	52.05	55.7
55.8	53.99	53.81	53.63	53.44	53.26	53.08	52.89	52.71	52.53	52.34	52.16	55.8
55.9	54.09	53.91	53.73	53.54	53.36	53.18	52.99	52.81	52.63	52.44	52.26	55.9
56.0	54.19	54.01	53.83	53.65	53.46	53.28	53.10	52.91	52.73	52.54	52.36	56.0
56.1	54.29	54.11	53.93	53.75	53.56	53.38	53.20	53.01	52.83	52.65	52.46	56.1
56.2	54.40	54.21	54.03	53.85	53.67	53.48	53.30	53.12	52.93	52.75	52.57	56.2
56.3	54.50	54.32	54.13	53.95	53.77	53.59	53.40	53.22	53.04	52.85	52.67	56.3
56.4	54.60	54.42	54.23	54.05	53.87	53.69	53.50	53.32	53.14	52.95	52.77	56.4
56.5	54.70	54.52	54.34	54.15	53.97	53.79	53.61	53.42	53.24	53.06	52.87	56.5
56.6	54.80	54.62	54.44	54.26	54.07	53.89	53.71	53.52	53.34	53.16	52.97	56.6
56.7	54.90	54.72	54.54	54.36	54.17	53.99	53.81	53.63	53.44	53.26	53.08	56.7
56.8	55.00	54.82	54.64	54.46	54.28	54.09	53.91	53.73	53.55	53.36	53.18	56.8
56.9	55.10	54.92	54.74	54.56	54.38	54.20	54.01	53.83	53.65	53.46	53.28	56.9
57.0	55.20	55.02	54.84	54.66	54.48	54.30	54.11	53.93	53.75	53.57	53.38	57.0
57.1	55.31	55.13	54.94	54.76	54.58	54.40	54.22	54.03	53.85	53.67	53.48	57.1
57.2	55.41	55.23	55.05	54.86	54.68	54.50	54.32	54.14	53.95	53.77	53.59	57.2
57.3	55.51	55.33	55.15	54.97	54.78	54.60	54.42	54.24	54.05	53.87	53.69	57.3
57.4	55.61	55.43	55.25	55.07	54.89	54.70	54.52	54.34	54.16	53.97	53.79	57.4
57.5	55.71	55.53	55.35	55.17	54.99	54.81	54.62	54.44	54.26	54.08	53.89	57.5
57.6	55.81	55.63	55.45	55.27	55.09	54.91	54.72	54.54	54.36	54.18	54.00	57.6
57.7	55.91	55.73	55.55	55.37	55.19	55.01	54.83	54.64	54.46	54.28	54.10	57.7
57.8	56.01	55.83	55.65	55.47	55.29	55.11	54.93	54.75	54.56	54.38	54.20	57.8
57.9	56.11	55.93	55.75	55.57	55.39	55.21	55.03	54.85	54.67	54.48	54.30	57.9
58.0	56.22	56.04	55.86	55.68	55.49	55.31	55.13	54.95	54.77	54.59	54.40	58.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
58.0	56.22	56.04	55.86	55.68	55.49	55.31	55.13	54.95	54.77	54.59	54.40	58.0
58.1	56.32	56.14	55.96	55.78	55.60	55.41	55.23	55.05	54.87	54.69	54.51	58.1
58.2	56.42	56.24	56.06	55.88	55.70	55.52	55.34	55.15	54.97	54.79	54.61	58.2
58.3	56.52	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.07	54.89	54.71	58.3
58.4	56.62	56.44	56.26	56.08	55.90	55.72	55.54	55.36	55.18	54.99	54.81	58.4
58.5	56.72	56.54	56.36	56.18	56.00	55.82	55.64	55.46	55.28	55.10	54.91	58.5
58.6	56.82	56.64	56.46	56.28	56.10	55.92	55.74	55.56	55.38	55.20	55.02	58.6
58.7	56.92	56.74	56.56	56.39	56.20	56.02	55.84	55.66	55.48	55.30	55.12	58.7
58.8	57.02	56.85	56.67	56.49	56.31	56.13	55.95	55.76	55.58	55.40	55.22	58.8
58.9	57.13	56.95	56.77	56.59	56.41	56.23	56.05	55.87	55.69	55.50	55.32	58.9
59.0	57.23	57.05	56.87	56.69	56.51	56.33	56.15	55.97	55.79	55.61	55.43	59.0
59.1	57.33	57.15	56.97	56.79	56.61	56.43	56.25	56.07	55.89	55.71	55.53	59.1
59.2	57.43	57.25	57.07	56.89	56.71	56.53	56.35	56.17	55.99	55.81	55.63	59.2
59.3	57.53	57.35	57.17	56.99	56.81	56.63	56.45	56.27	56.09	55.91	55.73	59.3
59.4	57.63	57.45	57.27	57.09	56.92	56.74	56.56	56.38	56.20	56.01	55.83	59.4
59.5	57.73	57.55	57.38	57.20	57.02	56.84	56.66	56.48	56.30	56.12	55.94	59.5
59.6	57.83	57.66	57.48	57.30	57.12	56.94	56.76	56.58	56.40	56.22	56.04	59.6
59.7	57.93	57.76	57.58	57.40	57.22	57.04	56.86	56.68	56.50	56.32	56.14	59.7
59.8	58.04	57.86	57.68	57.50	57.32	57.14	56.96	56.78	56.60	56.42	56.24	59.8
59.9	58.14	57.96	57.78	57.60	57.42	57.24	57.06	56.88	56.70	56.52	56.34	59.9
60.0	58.24	58.06	57.88	57.70	57.52	57.35	57.17	56.99	56.81	56.63	56.45	60.0
60.1	58.34	58.16	57.98	57.80	57.63	57.45	57.27	57.09	56.91	56.73	56.55	60.1
60.2	58.44	58.26	58.08	57.91	57.73	57.55	57.37	57.19	57.01	56.83	56.65	60.2
60.3	58.54	58.36	58.19	58.01	57.83	57.65	57.47	57.29	57.11	56.93	56.75	60.3
60.4	58.64	58.46	58.29	58.11	57.93	57.75	57.57	57.39	57.21	57.03	56.85	60.4
60.5	58.74	58.57	58.39	58.21	58.03	57.85	57.67	57.50	57.32	57.14	56.96	60.5
60.6	58.84	58.67	58.49	58.31	58.13	57.96	57.78	57.60	57.42	57.24	57.06	60.6
60.7	58.95	58.77	58.59	58.41	58.24	58.06	57.88	57.70	57.52	57.34	57.16	60.7
60.8	59.05	58.87	58.69	58.51	58.34	58.16	57.98	57.80	57.62	57.44	57.26	60.8
60.9	59.15	58.97	58.79	58.62	58.44	58.26	58.08	57.90	57.72	57.54	57.37	60.9
61.0	59.25	59.07	58.89	58.72	58.54	58.36	58.18	58.00	57.83	57.65	57.47	61.0
61.1	59.35	59.17	59.00	58.82	58.64	58.46	58.29	58.11	57.93	57.75	57.57	61.1
61.2	59.45	59.27	59.10	58.92	58.74	58.56	58.39	58.21	58.03	57.85	57.67	61.2
61.3	59.55	59.38	59.20	59.02	58.84	58.67	58.49	58.31	58.13	57.95	57.77	61.3
61.4	59.65	59.48	59.30	59.12	58.95	58.77	58.59	58.41	58.23	58.05	57.88	61.4
61.5	59.75	59.58	59.40	59.22	59.05	58.87	58.69	58.51	58.34	58.16	57.98	61.5
61.6	59.86	59.68	59.50	59.33	59.15	58.97	58.79	58.62	58.44	58.26	58.08	61.6
61.7	59.96	59.78	59.60	59.43	59.25	59.07	58.90	58.72	58.54	58.36	58.18	61.7
61.8	60.06	59.88	59.71	59.53	59.35	59.17	59.00	58.82	58.64	58.46	58.28	61.8
61.9	60.16	59.98	59.81	59.63	59.45	59.28	59.10	58.92	58.74	58.56	58.39	61.9
62.0	60.26	60.08	59.91	59.73	59.55	59.38	59.20	59.02	58.85	58.67	58.49	62.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
62.0	60.26	60.08	59.91	59.73	59.55	59.38	59.20	59.02	58.85	58.67	58.49	62.0
62.1	60.36	60.19	60.01	59.83	59.66	59.48	59.30	59.12	58.95	58.77	58.59	62.1
62.2	60.46	60.29	60.11	59.93	59.76	59.58	59.40	59.23	59.05	58.87	58.69	62.2
62.3	60.56	60.39	60.21	60.04	59.86	59.68	59.51	59.33	59.15	58.97	58.79	62.3
62.4	60.66	60.49	60.31	60.14	59.96	59.78	59.61	59.43	59.25	59.08	58.90	62.4
62.5	60.77	60.59	60.41	60.24	60.06	59.89	59.71	59.53	59.35	59.18	59.00	62.5
62.6	60.87	60.69	60.52	60.34	60.16	59.99	59.81	59.63	59.46	59.28	59.10	62.6
62.7	60.97	60.79	60.62	60.44	60.27	60.09	59.91	59.74	59.56	59.38	59.20	62.7
62.8	61.07	60.89	60.72	60.54	60.37	60.19	60.01	59.84	59.66	59.48	59.31	62.8
62.9	61.17	60.99	60.82	60.64	60.47	60.29	60.12	59.94	59.76	59.59	59.41	62.9
63.0	61.27	61.10	60.92	60.75	60.57	60.39	60.22	60.04	59.86	59.69	59.51	63.0
63.1	61.37	61.20	61.02	60.85	60.67	60.50	60.32	60.14	59.97	59.79	59.61	63.1
63.2	61.47	61.30	61.12	60.95	60.77	60.60	60.42	60.24	60.07	59.89	59.71	63.2
63.3	61.57	61.40	61.22	61.05	60.87	60.70	60.52	60.35	60.17	59.99	59.82	63.3
63.4	61.68	61.50	61.33	61.15	60.98	60.80	60.62	60.45	60.27	60.10	59.92	63.4
63.5	61.78	61.60	61.43	61.25	61.08	60.90	60.73	60.55	60.37	60.20	60.02	63.5
63.6	61.88	61.70	61.53	61.35	61.18	61.00	60.83	60.65	60.48	60.30	60.12	63.6
63.7	61.98	61.80	61.63	61.46	61.28	61.11	60.93	60.75	60.58	60.40	60.22	63.7
63.8	62.08	61.91	61.73	61.56	61.38	61.21	61.03	60.86	60.68	60.50	60.33	63.8
63.9	62.18	62.01	61.83	61.66	61.48	61.31	61.13	60.96	60.78	60.61	60.43	63.9
64.0	62.28	62.11	61.93	61.76	61.59	61.41	61.24	61.06	60.88	60.71	60.53	64.0
64.1	62.38	62.21	62.04	61.86	61.69	61.51	61.34	61.16	60.99	60.81	60.63	64.1
64.2	62.48	62.31	62.14	61.96	61.79	61.61	61.44	61.26	61.09	60.91	60.74	64.2
64.3	62.59	62.41	62.24	62.06	61.89	61.72	61.54	61.37	61.19	61.01	60.84	64.3
64.4	62.69	62.51	62.34	62.17	61.99	61.82	61.64	61.47	61.29	61.12	60.94	64.4
64.5	62.79	62.61	62.44	62.27	62.09	61.92	61.74	61.57	61.39	61.22	61.04	64.5
64.6	62.89	62.72	62.54	62.37	62.19	62.02	61.85	61.67	61.50	61.32	61.14	64.6
64.7	62.99	62.82	62.64	62.47	62.30	62.12	61.95	61.77	61.60	61.42	61.25	64.7
64.8	63.09	62.92	62.74	62.57	62.40	62.22	62.05	61.87	61.70	61.52	61.35	64.8
64.9	63.19	63.02	62.85	62.67	62.50	62.33	62.15	61.98	61.80	61.63	61.45	64.9
65.0	63.29	63.12	62.95	62.77	62.60	62.43	62.25	62.08	61.90	61.73	61.55	65.0
65.1	63.39	63.22	63.05	62.88	62.70	62.53	62.35	62.18	62.01	61.83	61.66	65.1
65.2	63.50	63.32	63.15	62.98	62.80	62.63	62.46	62.28	62.11	61.93	61.76	65.2
65.3	63.60	63.42	63.25	63.08	62.91	62.73	62.56	62.38	62.21	62.03	61.86	65.3
65.4	63.70	63.53	63.35	63.18	63.01	62.83	62.66	62.49	62.31	62.14	61.96	65.4
65.5	63.80	63.63	63.45	63.28	63.11	62.94	62.76	62.59	62.41	62.24	62.06	65.5
65.6	63.90	63.73	63.56	63.38	63.21	63.04	62.86	62.69	62.52	62.34	62.17	65.6
65.7	64.00	63.83	63.66	63.48	63.31	63.14	62.97	62.79	62.62	62.44	62.27	65.7
65.8	64.10	63.93	63.76	63.59	63.41	63.24	63.07	62.89	62.72	62.55	62.37	65.8
65.9	64.20	64.03	63.86	63.69	63.51	63.34	63.17	63.00	62.82	62.65	62.47	65.9
66.0	64.30	64.13	63.96	63.79	63.62	63.44	63.27	63.10	62.92	62.75	62.58	66.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
66.0	64.30	64.13	63.96	63.79	63.62	63.44	63.27	63.10	62.92	62.75	62.58	66.0
66.1	64.41	64.23	64.06	63.89	63.72	63.55	63.37	63.20	63.03	62.85	62.68	66.1
66.2	64.51	64.34	64.16	63.99	63.82	63.65	63.47	63.30	63.13	62.95	62.78	66.2
66.3	64.61	64.44	64.27	64.09	63.92	63.75	63.58	63.40	63.23	63.06	62.88	66.3
66.4	64.71	64.54	64.37	64.19	64.02	63.85	63.68	63.50	63.33	63.16	62.98	66.4
66.5	64.81	64.64	64.47	64.30	64.12	63.95	63.78	63.61	63.43	63.26	63.09	66.5
66.6	64.91	64.74	64.57	64.40	64.23	64.05	63.88	63.71	63.54	63.36	63.19	66.6
66.7	65.01	64.84	64.67	64.50	64.33	64.16	63.98	63.81	63.64	63.46	63.29	66.7
66.8	65.11	64.94	64.77	64.60	64.43	64.26	64.09	63.91	63.74	63.57	63.39	66.8
66.9	65.21	65.04	64.87	64.70	64.53	64.36	64.19	64.01	63.84	63.67	63.50	66.9
67.0	65.32	65.15	64.98	64.80	64.63	64.46	64.29	64.12	63.94	63.77	63.60	67.0
67.1	65.42	65.25	65.08	64.91	64.73	64.56	64.39	64.22	64.05	63.87	63.70	67.1
67.2	65.52	65.35	65.18	65.01	64.84	64.66	64.49	64.32	64.15	63.98	63.80	67.2
67.3	65.62	65.45	65.28	65.11	64.94	64.77	64.59	64.42	64.25	64.08	63.90	67.3
67.4	65.72	65.55	65.38	65.21	65.04	64.87	64.70	64.52	64.35	64.18	64.01	67.4
67.5	65.82	65.65	65.48	65.31	65.14	64.97	64.80	64.63	64.45	64.28	64.11	67.5
67.6	65.92	65.75	65.58	65.41	65.24	65.07	64.90	64.53	64.56	64.38	64.21	67.6
67.7	66.02	65.85	65.68	65.51	65.34	65.17	65.00	64.83	64.66	64.49	64.31	67.7
67.8	66.13	65.96	65.79	65.62	65.45	65.28	65.10	64.93	64.76	64.59	64.42	67.8
67.9	66.23	66.06	65.89	65.72	65.55	65.38	65.21	65.03	64.86	64.69	64.52	67.9
68.0	66.33	66.16	65.99	65.82	65.65	65.48	65.31	65.14	64.96	64.79	64.62	68.0
68.1	66.43	66.26	66.09	65.92	65.75	65.58	65.41	65.24	65.07	64.90	64.72	68.1
68.2	66.53	66.36	66.19	66.02	65.85	65.68	65.51	65.34	65.17	65.00	64.83	68.2
68.3	66.63	66.46	66.29	66.12	65.95	65.78	65.61	65.44	65.27	65.10	64.93	68.3
68.4	66.73	66.56	66.39	66.23	66.06	65.89	65.72	65.54	65.37	65.20	65.03	68.4
68.5	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.65	65.48	65.30	65.13	68.5
68.6	66.94	66.77	66.60	66.43	66.26	66.09	65.92	65.75	65.58	65.41	65.24	68.6
68.7	67.04	66.87	66.70	66.53	66.36	66.19	66.02	65.85	65.68	65.51	65.34	68.7
68.8	67.14	66.97	66.80	66.63	66.46	66.29	66.12	65.95	65.78	65.61	65.44	68.8
68.9	67.24	67.07	66.90	66.73	66.56	66.39	66.22	66.05	65.88	65.71	65.54	68.9
69.0	67.34	67.17	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.64	69.0
69.1	67.44	67.27	67.11	66.94	66.77	66.60	66.43	66.26	66.09	65.92	65.75	69.1
69.2	67.54	67.37	67.21	67.04	66.87	66.70	66.53	66.36	66.19	66.02	65.85	69.2
69.3	67.64	67.48	67.31	67.14	66.97	66.80	66.63	66.46	66.29	66.12	65.95	69.3
69.4	67.74	67.58	67.41	67.24	67.07	66.90	66.73	66.56	66.40	66.22	66.05	69.4
69.5	67.85	67.68	67.51	67.34	67.17	67.01	66.84	66.67	66.50	66.33	66.16	69.5
69.6	67.95	67.78	67.61	67.44	67.28	67.11	66.94	66.77	66.60	66.43	66.26	69.6
69.7	68.05	67.88	67.71	67.55	67.38	67.21	67.04	66.87	66.70	66.53	66.36	69.7
69.8	68.15	67.98	67.82	67.65	67.48	67.31	67.14	66.97	66.80	66.63	66.46	69.8
69.9	68.25	68.08	67.92	67.75	67.58	67.41	67.24	67.08	66.91	66.74	66.57	69.9
70.0	68.35	68.19	68.02	67.85	67.68	67.51	67.35	67.18	67.01	66.84	66.67	70.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
70.0	68.35	68.19	68.02	67.85	67.68	67.52	67.35	67.18	67.01	66.84	66.67	70.0
70.1	68.45	68.29	68.12	67.95	67.79	67.62	67.45	67.28	67.11	66.94	66.77	70.1
70.2	68.56	68.39	68.22	68.05	67.89	67.72	67.55	67.38	67.21	67.04	66.87	70.2
70.3	68.66	68.49	68.32	68.16	67.99	67.82	67.65	67.48	67.32	67.15	66.98	70.3
70.4	68.76	68.59	68.42	68.26	68.09	67.92	67.76	67.59	67.42	67.25	67.08	70.4
70.5	68.86	68.69	68.53	68.36	68.19	68.02	67.86	67.69	67.52	67.35	67.18	70.5
70.6	68.96	68.79	68.63	68.46	68.29	68.13	67.96	67.79	67.62	67.45	67.28	70.6
70.7	69.06	68.90	68.73	68.56	68.40	68.23	68.06	67.89	67.72	67.56	67.39	70.7
70.8	69.16	69.00	68.83	68.66	68.50	68.33	68.16	68.00	67.83	67.66	67.49	70.8
70.9	69.26	69.10	68.93	68.77	68.60	68.43	68.27	68.10	67.93	67.76	67.59	70.9
71.0	69.37	69.20	69.03	68.87	68.70	68.53	68.37	68.20	68.03	67.86	67.69	71.0
71.1	69.47	69.30	69.14	68.97	68.80	68.64	68.47	68.30	68.13	67.97	67.80	71.1
71.2	69.57	69.40	69.24	69.07	68.90	68.74	68.57	68.40	68.24	68.07	67.90	71.2
71.3	69.67	69.50	69.34	69.17	69.01	68.84	68.67	68.51	68.34	68.17	68.00	71.3
71.4	69.77	69.61	69.44	69.27	69.11	68.94	68.78	68.61	68.44	68.27	68.10	71.4
71.5	69.87	69.71	69.54	69.38	69.21	69.04	68.88	68.71	68.54	68.38	68.21	71.5
71.6	69.97	69.81	69.64	69.48	69.31	69.15	68.98	68.81	68.65	68.48	68.31	71.6
71.7	70.07	69.91	69.74	69.58	69.41	69.25	69.08	68.91	68.75	68.58	68.41	71.7
71.8	70.18	70.01	69.85	69.68	69.52	69.35	69.18	69.02	68.85	68.68	68.51	71.8
71.9	70.28	70.11	69.95	69.78	69.62	69.45	69.29	69.12	68.95	68.78	68.62	71.9
72.0	70.38	70.21	70.05	69.88	69.72	69.55	69.39	69.22	69.05	68.89	68.72	72.0
72.1	70.48	70.32	70.15	69.99	69.82	69.66	69.49	69.32	69.16	68.99	68.82	72.1
72.2	70.58	70.42	70.25	70.09	69.92	69.76	69.59	69.43	69.26	69.09	68.92	72.2
72.3	70.68	70.52	70.35	70.19	70.02	69.86	69.69	69.53	69.36	69.19	69.03	72.3
72.4	70.78	70.62	70.46	70.29	70.13	69.96	69.80	69.63	69.46	69.30	69.13	72.4
72.5	70.88	70.72	70.56	70.39	70.23	70.06	69.90	69.73	69.57	69.40	69.23	72.5
72.6	70.99	70.82	70.66	70.49	70.33	70.16	70.00	69.83	69.67	69.50	69.34	72.6
72.7	71.09	70.92	70.76	70.60	70.43	70.27	70.10	69.94	69.77	69.60	69.44	72.7
72.8	71.19	71.03	70.86	70.70	70.53	70.37	70.20	70.04	69.87	69.71	69.54	72.8
72.9	71.29	71.13	70.96	70.80	70.64	70.47	70.31	70.14	69.98	69.81	69.64	72.9
73.0	71.39	71.23	71.06	70.90	70.74	70.57	70.41	70.24	70.08	69.91	69.75	73.0
73.1	71.49	71.33	71.17	71.00	70.84	70.67	70.51	70.35	70.18	70.01	69.85	73.1
73.2	71.59	71.43	71.27	71.10	70.94	70.78	70.61	70.45	70.28	70.12	69.95	73.2
73.3	71.69	71.53	71.37	71.21	71.04	70.88	70.71	70.55	70.38	70.22	70.05	73.3
73.4	71.80	71.63	71.47	71.31	71.14	70.98	70.82	70.65	70.49	70.32	70.16	73.4
73.5	71.90	71.74	71.57	71.41	71.25	71.08	70.92	70.75	70.59	70.42	70.26	73.5
73.6	72.00	71.84	71.67	71.51	71.35	71.18	71.02	70.86	70.69	70.53	70.36	73.6
73.7	72.10	71.94	71.78	71.61	71.45	71.29	71.12	70.96	70.79	70.63	70.46	73.7
73.8	72.20	72.04	71.88	71.71	71.55	71.39	71.22	71.06	70.90	70.73	70.57	73.8
73.9	72.30	72.14	71.98	71.82	71.65	71.49	71.33	71.16	71.00	70.83	70.67	73.9
74.0	72.40	72.24	72.08	71.92	71.76	71.59	71.43	71.27	71.10	70.94	70.77	74.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
74.0	72.40	72.24	72.08	71.92	71.76	71.59	71.43	71.27	71.10	70.94	70.77	74.0
74.1	72.51	72.34	72.18	72.02	71.86	71.69	71.53	71.37	71.20	71.04	70.87	74.1
74.2	72.61	72.45	72.28	72.12	71.96	71.80	71.63	71.47	71.31	71.14	70.98	74.2
74.3	72.71	72.55	72.39	72.22	72.06	71.90	71.74	71.57	71.41	71.24	71.08	74.3
74.4	72.81	72.65	72.49	72.32	72.16	72.00	71.84	71.67	71.51	71.35	71.18	74.4
74.5	72.91	72.75	72.59	72.43	72.26	72.10	71.94	71.78	71.61	71.45	71.29	74.5
74.6	73.01	72.85	72.69	72.53	72.37	72.20	72.04	71.88	71.72	71.55	71.39	74.6
74.7	73.11	72.95	72.79	72.63	72.47	72.31	72.14	71.98	71.82	71.65	71.49	74.7
74.8	73.21	73.05	72.89	72.73	72.57	72.41	72.25	72.08	71.92	71.76	71.59	74.8
74.9	73.32	73.16	72.99	72.83	72.67	72.51	72.35	72.19	72.02	71.86	71.70	74.9
75.0	73.42	73.26	73.10	72.94	72.77	72.61	72.45	72.29	72.13	71.96	71.80	75.0
75.1	73.52	73.36	73.20	73.04	72.88	72.71	72.55	72.39	72.23	72.06	71.90	75.1
75.2	73.62	73.46	73.30	73.14	72.98	72.82	72.65	72.49	72.33	72.17	72.00	75.2
75.3	73.72	73.56	73.40	73.24	73.08	72.92	72.76	72.59	72.43	72.27	72.11	75.3
75.4	73.82	73.66	73.50	73.34	73.18	73.02	72.86	72.70	72.53	72.37	72.21	75.4
75.5	73.92	73.76	73.60	73.44	73.28	73.12	72.96	72.80	72.64	72.47	72.31	75.5
75.6	74.03	73.87	73.71	73.55	73.39	73.22	73.06	72.90	72.74	72.58	72.41	75.6
75.7	74.13	73.97	73.81	73.65	73.49	73.33	73.17	73.00	72.84	72.68	72.52	75.7
75.8	74.23	74.07	73.91	73.75	73.59	73.43	73.27	73.11	72.94	72.78	72.62	75.8
75.9	74.33	74.17	74.01	73.85	73.69	73.53	73.37	73.21	73.05	72.89	72.72	75.9
76.0	74.43	74.27	74.11	73.95	73.79	73.63	73.47	73.31	73.15	72.99	72.83	76.0
76.1	74.53	74.37	74.21	74.05	73.89	73.73	73.57	73.41	73.25	73.09	72.93	76.1
76.2	74.63	74.47	74.32	74.16	74.00	73.84	73.68	73.52	73.35	73.19	73.03	76.2
76.3	74.73	74.58	74.42	74.26	74.10	73.94	73.78	73.62	73.46	73.30	73.13	76.3
76.4	74.84	74.68	74.52	74.36	74.20	74.04	73.88	73.72	73.56	73.40	73.24	76.4
76.5	74.94	74.78	74.62	74.46	74.30	74.14	73.98	73.82	73.66	73.50	73.34	76.5
76.6	75.04	74.88	74.72	74.56	74.40	74.25	74.09	73.93	73.76	73.60	73.44	76.6
76.7	75.14	74.98	74.82	74.67	74.51	74.35	74.19	74.03	73.87	73.71	73.55	76.7
76.8	75.24	75.08	74.93	74.77	74.61	74.45	74.29	74.13	73.97	73.81	73.65	76.8
76.9	75.34	75.19	75.03	74.87	74.71	74.55	74.39	74.23	74.07	73.91	73.75	76.9
77.0	75.44	75.29	75.13	74.97	74.81	74.65	74.49	74.33	74.17	74.01	73.85	77.0
77.1	75.55	75.39	75.23	75.07	74.91	74.76	74.60	74.44	74.28	74.12	73.96	77.1
77.2	75.65	75.49	75.33	75.17	75.02	74.86	74.70	74.54	74.38	74.22	74.06	77.2
77.3	75.75	75.59	75.43	75.28	75.12	74.96	74.80	74.64	74.48	74.32	74.16	77.3
77.4	75.85	75.69	75.54	75.38	75.22	75.06	74.90	74.74	74.58	74.42	74.26	77.4
77.5	75.95	75.79	75.64	75.48	75.32	75.16	75.01	74.85	74.69	74.53	74.37	77.5
77.6	76.05	75.90	75.74	75.58	75.42	75.27	75.11	74.95	74.79	74.63	74.47	77.6
77.7	76.15	76.00	75.84	75.68	75.53	75.37	75.21	75.05	74.89	74.73	74.57	77.7
77.8	76.26	76.10	75.94	75.79	75.63	75.47	75.31	75.15	74.99	74.84	74.68	77.8
77.9	76.36	76.20	76.04	75.89	75.73	75.57	75.41	75.26	75.10	74.94	74.78	77.9
78.0	76.46	76.30	76.15	75.99	75.83	75.67	75.52	75.36	75.20	75.04	74.88	78.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
78.0	76.46	76.30	76.15	75.99	75.83	75.67	75.52	75.36	75.20	75.04	74.88	78.0
78.1	76.56	76.40	76.25	76.09	75.93	75.78	75.62	75.46	75.30	75.14	74.98	78.1
78.2	76.66	76.51	76.35	76.19	76.04	75.88	75.72	75.56	75.40	75.25	75.09	78.2
78.3	76.76	76.61	76.45	76.29	76.14	75.98	75.82	75.67	75.51	75.35	75.19	78.3
78.4	76.86	76.71	76.55	76.40	76.24	76.08	75.93	75.77	75.61	75.45	75.29	78.4
78.5	76.97	76.81	76.65	76.50	76.34	76.18	76.03	75.87	75.71	75.55	75.40	78.5
78.6	77.07	76.91	76.76	76.60	76.44	76.29	76.13	75.97	75.81	75.66	75.50	78.6
78.7	77.17	77.01	76.86	76.70	76.55	76.39	76.23	76.08	75.92	75.76	75.60	78.7
78.8	77.27	77.11	76.96	76.80	76.65	76.49	76.33	76.18	76.02	75.86	75.70	78.8
78.9	77.37	77.22	77.06	76.91	76.75	76.59	76.44	76.28	76.12	75.97	75.81	78.9
79.0	77.47	77.32	77.16	77.01	76.85	76.70	76.54	76.38	76.23	76.07	75.91	79.0
79.1	77.57	77.42	77.26	77.11	76.95	76.80	76.64	76.48	76.33	76.17	76.01	79.1
79.2	77.68	77.52	77.37	77.21	77.06	76.90	76.74	76.59	76.43	76.27	76.12	79.2
79.3	77.78	77.62	77.47	77.31	77.16	77.00	76.85	76.69	76.53	76.38	76.22	79.3
79.4	77.88	77.72	77.57	77.41	77.26	77.10	76.95	76.79	76.64	76.48	76.32	79.4
79.5	77.98	77.83	77.67	77.52	77.36	77.21	77.05	76.89	76.74	76.58	76.42	79.5
79.6	78.08	77.93	77.77	77.62	77.46	77.31	77.15	77.00	76.84	76.68	76.53	79.6
79.7	78.18	78.03	77.87	77.72	77.57	77.41	77.26	77.10	76.94	76.79	76.63	79.7
79.8	78.28	78.13	77.98	77.82	77.67	77.51	77.36	77.20	77.05	76.89	76.73	79.8
79.9	78.39	78.23	78.08	77.92	77.77	77.62	77.46	77.30	77.15	76.99	76.84	79.9
80.0	78.49	78.33	78.18	78.03	77.87	77.72	77.56	77.41	77.25	77.10	76.94	80.0
80.1	78.59	78.44	78.28	78.13	77.97	77.82	77.66	77.51	77.35	77.20	77.04	80.1
80.2	78.69	78.54	78.38	78.23	78.08	77.92	77.77	77.61	77.46	77.30	77.15	80.2
80.3	78.79	78.64	78.49	78.33	78.18	78.02	77.87	77.71	77.56	77.40	77.25	80.3
80.4	78.89	78.74	78.59	78.43	78.28	78.13	77.97	77.82	77.66	77.51	77.35	80.4
80.5	78.99	78.84	78.69	78.54	78.38	78.23	78.07	77.92	77.76	77.61	77.45	80.5
80.6	79.10	78.94	78.79	78.64	78.48	78.33	78.18	78.02	77.87	77.71	77.56	80.6
80.7	79.20	79.05	78.89	78.74	78.59	78.43	78.28	78.13	77.97	77.82	77.66	80.7
80.8	79.30	79.15	78.99	78.84	78.69	78.54	78.38	78.23	78.07	77.92	77.76	80.8
80.9	79.40	79.25	79.10	78.94	78.79	78.64	78.48	78.33	78.18	78.02	77.87	80.9
81.0	79.50	79.35	79.20	79.05	78.89	78.74	78.59	78.43	78.28	78.12	77.97	81.0
81.1	79.60	79.45	79.30	79.15	79.00	78.84	78.69	78.54	78.38	78.23	78.07	81.1
81.2	79.71	79.55	79.40	79.25	79.10	78.94	78.79	78.64	78.48	78.33	78.18	81.2
81.3	79.81	79.66	79.50	79.35	79.20	79.05	78.89	78.74	78.59	78.43	78.28	81.3
81.4	79.91	79.76	79.61	79.45	79.30	79.15	79.00	78.84	78.69	78.54	78.38	81.4
81.5	80.01	79.86	79.71	79.56	79.40	79.25	79.10	78.95	78.79	78.64	78.48	81.5
81.6	80.11	79.96	79.81	79.66	79.51	79.35	79.20	79.05	78.90	78.74	78.59	81.6
81.7	80.21	80.06	79.91	79.76	79.61	79.46	79.30	79.15	79.00	78.84	78.69	81.7
81.8	80.31	80.16	80.01	79.86	79.71	79.56	79.41	79.25	79.10	78.95	78.79	81.8
81.9	80.42	80.27	80.12	79.96	79.81	79.66	79.51	79.36	79.20	79.05	78.90	81.9
82.0	80.52	80.37	80.22	80.07	79.92	79.76	79.61	79.46	79.31	79.15	79.00	82.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
82.0	80.52	80.37	80.22	80.07	79.92	79.76	79.61	79.46	79.31	79.15	79.00	82.0
82.1	80.62	80.47	80.32	80.17	80.02	79.87	79.71	79.56	79.41	79.26	79.10	82.1
82.2	80.72	80.57	80.42	80.27	80.12	79.97	79.82	79.66	79.51	79.36	79.21	82.2
82.3	80.82	80.67	80.52	80.37	80.22	80.07	79.92	79.77	79.62	79.46	79.31	82.3
82.4	80.92	80.77	80.63	80.47	80.32	80.17	80.02	79.87	79.72	79.57	79.41	82.4
82.5	81.03	80.88	80.73	80.58	80.43	80.28	80.12	79.97	79.82	79.67	79.52	82.5
82.6	81.13	80.98	80.83	80.68	80.53	80.38	80.23	80.08	79.92	79.77	79.62	82.6
82.7	81.23	81.08	80.93	80.78	80.63	80.48	80.33	80.18	80.03	79.87	79.72	82.7
82.8	81.33	81.18	81.03	80.88	80.73	80.58	80.43	80.28	80.13	79.98	79.83	82.8
82.9	81.43	81.28	81.13	80.99	80.84	80.69	80.53	80.38	80.23	80.08	79.93	82.9
83.0	81.53	81.39	81.24	81.09	80.94	80.79	80.64	80.49	80.34	80.18	80.03	83.0
83.1	81.64	81.49	81.34	81.19	81.04	80.89	80.74	80.59	80.44	80.29	80.14	83.1
83.2	81.74	81.59	81.44	81.29	81.14	80.99	80.84	80.69	80.54	80.39	80.24	83.2
83.3	81.84	81.69	81.54	81.39	81.25	81.10	80.95	80.80	80.64	80.49	80.34	83.3
83.4	81.94	81.79	81.65	81.50	81.35	81.20	81.05	80.90	80.75	80.60	80.45	83.4
83.5	82.04	81.90	81.75	81.60	81.45	81.30	81.15	81.00	80.85	80.70	80.55	83.5
83.6	82.14	82.00	81.85	81.70	81.55	81.40	81.25	81.10	80.95	80.80	80.65	83.6
83.7	82.25	82.10	81.95	81.80	81.65	81.51	81.36	81.21	81.06	80.91	80.76	83.7
83.8	82.35	82.20	82.05	81.91	81.76	81.61	81.46	81.31	81.16	81.01	80.86	83.8
83.9	82.45	82.30	82.16	82.01	81.86	81.71	81.56	81.41	81.26	81.11	80.96	83.9
84.0	82.55	82.41	82.26	82.11	81.96	81.81	81.67	81.52	81.37	81.22	81.07	84.0
84.1	82.65	82.51	82.36	82.21	82.06	81.92	81.77	81.62	81.47	81.32	81.17	84.1
84.2	82.76	82.61	82.46	82.32	82.17	82.02	81.87	81.72	81.57	81.42	81.27	84.2
84.3	82.86	82.71	82.56	82.42	82.27	82.12	81.97	81.83	81.68	81.53	81.38	84.3
84.4	82.96	82.81	82.67	82.52	82.37	82.22	82.08	81.93	81.78	81.63	81.48	84.4
84.5	83.06	82.92	82.77	82.62	82.48	82.33	82.18	82.03	81.88	81.73	81.58	84.5
84.6	83.16	83.02	82.87	82.72	82.58	82.43	82.28	82.13	81.99	81.84	81.69	84.6
84.7	83.27	83.12	82.97	82.83	82.68	82.53	82.39	82.24	82.09	81.94	81.79	84.7
84.8	83.37	83.22	83.08	82.93	82.78	82.64	82.49	82.34	82.19	82.04	81.90	84.8
84.9	83.47	83.32	83.18	83.03	82.89	82.74	82.59	82.44	82.30	82.15	82.00	84.9
85.0	83.57	83.43	83.28	83.13	82.99	82.84	82.69	82.55	82.40	82.25	82.10	85.0
85.1	83.67	83.53	83.38	83.24	83.09	82.94	82.80	82.65	82.50	82.35	82.21	85.1
85.2	83.77	83.63	83.49	83.34	83.19	83.05	82.90	82.75	82.61	82.46	82.31	85.2
85.3	83.88	83.73	83.59	83.44	83.30	83.15	83.00	82.86	82.71	82.56	82.41	85.3
85.4	83.98	83.83	83.69	83.54	83.40	83.25	83.11	82.96	82.81	82.67	82.52	85.4
85.5	84.08	83.94	83.79	83.65	83.50	83.36	83.21	83.06	82.92	82.77	82.62	85.5
85.6	84.18	84.04	83.89	83.75	83.60	83.46	83.31	83.17	83.02	82.87	82.73	85.6
85.7	84.28	84.14	84.00	83.85	83.71	83.56	83.42	83.27	83.12	82.98	82.83	85.7
85.8	84.39	84.24	84.10	83.96	83.81	83.67	83.52	83.37	83.23	83.08	82.93	85.8
85.9	84.49	84.35	84.20	84.06	83.91	83.77	83.62	83.48	83.33	83.18	83.04	85.9
86.0	84.59	84.45	84.30	84.16	84.02	83.87	83.73	83.58	83.43	83.29	83.14	86.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
86.0	84.59	84.45	84.30	84.16	84.02	83.87	83.73	83.58	83.43	83.29	83.14	86.0
86.1	84.69	84.55	84.41	84.26	84.12	83.97	83.83	83.68	83.54	83.39	83.25	86.1
86.2	84.80	84.65	84.51	84.37	84.22	84.08	83.93	83.79	83.64	83.50	83.35	86.2
86.3	84.90	84.76	84.61	84.47	84.32	84.18	84.04	83.89	83.75	83.60	83.45	86.3
86.4	85.00	84.86	84.71	84.57	84.43	84.28	84.14	83.99	83.85	83.70	83.56	86.4
86.5	85.10	84.96	84.82	84.67	84.53	84.39	84.24	84.10	83.95	83.81	83.66	86.5
86.6	85.20	85.06	84.92	84.78	84.63	84.49	84.35	84.20	84.06	83.91	83.77	86.6
86.7	85.31	85.16	85.02	84.88	84.74	84.59	84.45	84.31	84.16	84.02	83.87	86.7
86.8	85.41	85.27	85.13	84.98	84.84	84.70	84.55	84.41	84.26	84.12	83.97	86.8
86.9	85.51	85.37	85.23	85.09	84.94	84.80	84.66	84.51	84.37	84.22	84.08	86.9
87.0	85.61	85.47	85.33	85.19	85.05	84.90	84.76	84.62	84.47	84.33	84.18	87.0
87.1	85.72	85.57	85.43	85.29	85.15	85.01	84.86	84.72	84.58	84.43	84.29	87.1
87.2	85.82	85.68	85.54	85.39	85.25	85.11	84.97	84.82	84.68	84.54	84.39	87.2
87.3	85.92	85.78	85.64	85.50	85.36	85.21	85.07	84.93	84.78	84.64	84.50	87.3
87.4	86.02	85.88	85.74	85.60	85.46	85.32	85.17	85.03	84.89	84.74	84.60	87.4
87.5	86.12	85.98	85.84	85.70	85.56	85.42	85.28	85.14	84.99	84.85	84.71	87.5
87.6	86.23	86.09	85.95	85.81	85.67	85.52	85.38	85.24	85.10	84.95	84.81	87.6
87.7	86.33	86.19	86.05	85.91	85.77	85.63	85.49	85.34	85.20	85.06	84.91	87.7
87.8	86.43	86.29	86.15	86.01	85.87	85.73	85.59	85.45	85.31	85.16	85.02	87.8
87.9	86.53	86.40	86.26	86.12	85.98	85.83	85.69	85.55	85.41	85.27	85.12	87.9
88.0	86.64	86.50	86.36	86.22	86.08	85.94	85.80	85.66	85.51	85.37	85.23	88.0
88.1	86.74	86.60	86.46	86.32	86.18	86.04	85.90	85.76	85.62	85.48	85.33	88.1
88.2	86.84	86.70	86.57	86.43	86.29	86.15	86.01	85.86	85.72	85.58	85.44	88.2
88.3	86.94	86.81	86.67	86.53	86.39	86.25	86.11	85.97	85.83	85.69	85.54	88.3
88.4	87.05	86.91	86.77	86.63	86.49	86.35	86.21	86.07	85.93	85.79	85.65	88.4
88.5	87.15	87.01	86.87	86.74	86.60	86.46	86.32	86.18	86.04	85.89	85.75	88.5
88.6	87.25	87.12	86.98	86.84	86.70	86.56	86.42	86.28	86.14	86.00	85.86	88.6
88.7	87.36	87.22	87.08	86.94	86.80	86.66	86.53	86.39	86.25	86.10	85.96	88.7
88.8	87.46	87.32	87.18	87.05	86.91	86.77	86.63	86.49	86.35	86.21	86.07	88.8
88.9	87.56	87.42	87.29	87.15	87.01	86.87	86.73	86.59	86.45	86.31	86.17	88.9
89.0	87.66	87.53	87.39	87.25	87.12	86.98	86.84	86.70	86.56	86.42	86.28	89.0
89.1	87.77	87.63	87.49	87.36	87.22	87.08	86.94	86.80	86.66	86.52	86.38	89.1
89.2	87.87	87.73	87.60	87.46	87.32	87.18	87.05	86.91	86.77	86.63	86.49	89.2
89.3	87.97	87.84	87.70	87.56	87.43	87.29	87.15	87.01	86.87	86.73	86.59	89.3
89.4	88.07	87.94	87.80	87.67	87.53	87.39	87.26	87.12	86.98	86.84	86.70	89.4
89.5	88.18	88.04	87.91	87.77	87.63	87.50	87.36	87.22	87.08	86.94	86.80	89.5
89.6	88.28	88.15	88.01	87.87	87.74	87.60	87.46	87.33	87.19	87.05	86.91	89.6
89.7	88.38	88.25	88.11	87.98	87.84	87.71	87.57	87.43	87.29	87.15	87.02	89.7
89.8	88.49	88.35	88.22	88.08	87.95	87.81	87.67	87.54	87.40	87.26	87.12	89.8
89.9	88.59	88.46	88.32	88.19	88.05	87.91	87.78	87.64	87.50	87.37	87.23	89.9
90.0	88.69	88.56	88.42	88.29	88.15	88.02	87.88	87.75	87.61	87.47	87.33	90.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
90.0	88.69	88.56	88.42	88.29	88.15	88.02	87.88	87.75	87.61	87.47	87.33	90.0
90.1	88.80	88.66	88.53	88.39	88.26	88.12	87.99	87.85	87.71	87.58	87.44	90.1
90.2	88.90	88.77	88.63	88.50	88.36	88.23	88.09	87.96	87.82	87.68	87.54	90.2
90.3	89.00	88.87	88.74	88.60	88.47	88.33	88.20	88.06	87.92	87.79	87.65	90.3
90.4	89.10	88.97	88.84	88.71	88.57	88.44	88.30	88.17	88.03	87.89	87.76	90.4
90.5	89.21	89.08	88.94	88.81	88.68	88.54	88.41	88.27	88.14	88.00	87.86	90.5
90.6	89.31	89.18	89.05	88.91	88.78	88.65	88.51	88.38	88.24	88.10	87.97	90.6
90.7	89.41	89.28	89.15	89.02	88.88	88.75	88.62	88.48	88.35	88.21	88.07	90.7
90.8	89.52	89.39	89.25	89.12	88.99	88.86	88.72	88.59	88.45	88.32	88.18	90.8
90.9	89.62	89.49	89.36	89.23	89.09	88.96	88.83	88.69	88.56	88.42	88.29	90.9
91.0	89.72	89.59	89.46	89.33	89.20	89.06	88.93	88.80	88.66	88.53	88.39	91.0
91.1	89.83	89.70	89.57	89.43	89.30	89.17	89.04	88.90	88.77	88.63	88.50	91.1
91.2	89.93	89.80	89.67	89.54	89.41	89.27	89.14	89.01	88.87	88.74	88.61	91.2
91.3	90.03	89.90	89.77	89.64	89.51	89.38	89.25	89.11	88.98	88.85	88.71	91.3
91.4	90.14	90.01	89.88	89.75	89.62	89.48	89.35	89.22	89.09	88.95	88.82	91.4
91.5	90.24	90.11	89.98	89.85	89.72	89.59	89.46	89.33	89.19	89.06	88.93	91.5
91.6	90.34	90.22	90.09	89.96	89.83	89.69	89.56	89.43	89.30	89.17	89.03	91.6
91.7	90.45	90.32	90.19	90.06	89.93	89.80	89.67	89.54	89.40	89.27	89.14	91.7
91.8	90.55	90.42	90.29	90.17	90.04	89.91	89.77	89.64	89.51	89.38	89.25	91.8
91.9	90.65	90.53	90.40	90.27	90.14	90.01	89.88	89.75	89.62	89.48	89.35	91.9
92.0	90.76	90.63	90.50	90.37	90.25	90.12	89.99	89.85	89.72	89.59	89.46	92.0
92.1	90.86	90.73	90.61	90.48	90.35	90.22	90.09	89.96	89.83	89.70	89.57	92.1
92.2	90.97	90.84	90.71	90.58	90.46	90.33	90.20	90.07	89.94	89.80	89.67	92.2
92.3	91.07	90.94	90.82	90.69	90.56	90.43	90.30	90.17	90.04	89.91	89.78	92.3
92.4	91.17	91.05	90.92	90.79	90.67	90.54	90.41	90.28	90.15	90.02	89.89	92.4
92.5	91.28	91.15	91.02	90.90	90.77	90.64	90.51	90.38	90.26	90.13	89.99	92.5
92.6	91.38	91.25	91.13	91.00	90.88	90.75	90.62	90.49	90.36	90.23	90.10	92.6
92.7	91.48	91.36	91.23	91.11	90.98	90.85	90.73	90.60	90.47	90.34	90.21	92.7
92.8	91.59	91.46	91.34	91.21	91.09	90.96	90.83	90.70	90.58	90.45	90.32	92.8
92.9	91.69	91.57	91.44	91.32	91.19	91.06	90.94	90.81	90.68	90.55	90.42	92.9
93.0	91.80	91.67	91.55	91.42	91.30	91.17	91.04	90.92	90.79	90.66	90.53	93.0
93.1	91.90	91.78	91.65	91.53	91.40	91.28	91.15	91.02	90.90	90.77	90.64	93.1
93.2	92.00	91.88	9176.00	91.63	91.51	91.38	91.26	91.13	91.00	90.87	90.75	93.2
93.3	92.11	91.98	91.86	91.74	91.61	91.49	91.36	91.24	91.11	90.98	90.85	93.3
93.4	92.22	92.09	91.97	91.84	91.72	91.59	91.47	91.34	91.22	91.09	90.96	93.4
93.5	92.31	92.19	92.07	91.95	91.82	91.70	91.58	91.45	91.32	91.20	91.07	93.5
93.6	92.42	92.30	92.18	92.05	91.93	91.81	91.68	91.56	91.43	91.30	91.18	93.6
93.7	92.52	92.40	92.28	92.16	92.04	91.91	91.79	91.66	91.54	91.41	91.29	93.7
93.8	92.63	92.51	92.39	92.26	92.14	92.02	91.89	91.77	91.65	91.52	91.39	93.8
93.9	92.73	92.61	92.49	92.37	92.25	92.12	92.00	91.88	91.75	91.63	91.50	93.9
94.0	92.84	92.72	92.60	92.47	92.35	92.23	92.11	91.98	91.86	91.74	91.61	94.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
94.0	92.84	92.72	92.60	92.47	92.35	92.23	92.11	91.98	91.86	91.74	91.61	94.0
94.1	92.94	92.82	92.70	92.58	92.46	92.34	92.21	92.09	91.97	91.84	91.72	94.1
94.2	93.04	92.93	92.81	92.69	92.56	92.44	92.32	92.20	92.08	91.95	91.83	94.2
94.3	93.15	93.03	92.91	92.79	92.67	92.55	92.43	92.31	92.18	92.06	91.94	94.3
94.4	93.25	93.13	93.02	92.90	92.78	92.66	92.54	92.41	92.29	92.17	92.04	94.4
94.5	92.36	93.24	93.12	93.00	92.88	92.76	92.64	92.52	92.40	92.28	92.15	94.5
94.6	92.46	93.34	93.23	93.11	92.99	92.87	92.75	92.63	92.51	92.38	92.26	94.6
94.7	92.57	93.45	93.33	93.21	93.10	92.98	92.86	92.74	92.61	92.49	92.37	94.7
94.8	92.67	93.55	93.44	93.32	93.20	93.08	92.96	92.84	92.72	92.60	92.48	94.8
94.9	92.77	93.66	93.54	93.43	93.31	93.19	93.07	92.95	92.83	92.71	92.59	94.9
95.0	92.88	93.76	93.65	93.53	93.41	93.30	93.18	93.06	92.94	92.82	92.70	95.0
95.1	92.98	93.87	93.75	93.64	93.52	93.40	93.28	93.17	93.05	92.93	92.81	95.1
95.2	94.09	93.97	93.86	93.74	93.63	93.51	93.39	93.27	93.15	93.04	92.92	95.2
95.3	94.19	94.08	93.96	93.85	93.73	93.62	93.50	93.38	93.26	93.14	93.02	95.3
95.4	94.30	94.18	94.07	93.96	93.84	93.72	93.61	93.49	93.37	93.25	93.13	95.4
95.5	94.40	94.29	94.18	94.06	93.95	93.83	93.71	93.60	93.48	93.36	93.24	95.5
95.6	94.51	94.39	94.28	94.17	94.05	93.94	93.82	93.71	93.59	93.47	93.35	95.6
95.7	94.61	94.50	94.39	94.27	94.16	94.04	93.93	93.81	93.70	93.58	93.47	95.7
95.8	94.72	94.61	94.49	94.38	94.27	94.15	94.04	93.92	93.81	93.69	93.57	95.8
95.9	94.82	94.71	94.60	94.49	94.37	94.26	94.15	94.03	93.91	93.80	93.68	95.9
96.0	94.93	94.82	94.70	94.59	94.48	94.37	94.25	94.14	94.02	93.91	93.79	96.0
96.1	95.03	94.92	94.81	94.70	94.59	94.47	94.36	94.25	94.13	94.02	93.90	96.1
96.2	95.14	95.03	94.92	94.81	94.69	94.58	94.47	94.36	94.24	94.13	94.01	96.2
96.3	95.24	95.13	95.02	94.91	94.80	94.69	94.58	94.46	94.35	94.24	94.12	96.3
96.4	95.35	95.24	95.13	95.02	94.91	94.80	94.68	94.57	94.46	94.35	94.23	96.4
96.5	95.45	95.34	95.23	95.13	95.01	94.90	94.79	94.68	94.57	94.46	94.34	96.5
96.6	95.56	95.45	95.34	95.23	95.12	95.01	94.90	94.79	94.68	94.56	94.45	96.6
96.7	95.66	95.55	95.45	95.34	95.23	95.12	95.01	94.90	94.79	94.67	94.56	96.7
96.8	95.77	95.66	95.55	95.45	95.34	95.23	95.12	95.01	94.90	94.78	94.67	96.8
96.9	95.87	95.77	95.66	95.55	95.44	95.34	95.23	95.12	95.01	94.89	94.78	96.9
97.0	95.98	95.87	95.77	95.66	95.55	95.44	95.33	95.23	95.12	95.00	94.89	97.0
97.1	96.08	95.98	95.87	95.77	95.66	95.55	95.44	95.33	95.23	95.11	95.00	97.1
97.2	96.19	96.08	95.98	95.87	95.77	95.66	95.55	95.44	95.33	95.23	95.11	97.2
97.3	96.29	96.19	96.09	95.98	95.87	95.77	95.66	95.55	95.44	95.34	95.23	97.3
97.4	96.40	96.30	96.19	96.09	95.98	95.88	95.77	95.66	95.55	95.45	95.34	97.4
97.5	96.50	96.40	96.30	96.19	96.09	95.98	95.88	95.77	95.66	95.56	95.45	97.5
97.6	96.61	96.51	96.41	96.30	96.20	96.09	95.99	95.88	95.77	95.67	95.56	97.6
97.7	96.72	96.61	96.51	96.41	96.31	96.20	96.10	95.99	95.88	95.78	95.67	97.7
97.8	96.82	96.72	96.62	96.52	96.41	96.31	96.21	96.10	96.00	95.89	95.78	97.8
97.9	96.93	96.83	96.73	96.62	96.52	96.42	96.31	96.21	96.11	96.00	95.89	97.9
98.0	97.03	96.93	96.83	96.73	96.63	96.53	96.42	96.32	96.22	96.11	96.01	98.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	
98.0	97.03	96.93	96.83	96.73	96.63	96.53	96.42	96.32	96.22	96.11	96.01	98.0
98.1	97.14	97.04	96.94	96.84	96.74	96.64	96.53	96.43	96.33	96.22	96.12	98.1
98.2	97.25	97.15	97.05	96.95	96.85	96.74	96.64	96.54	96.44	96.33	96.23	98.2
98.3	97.35	97.25	97.15	97.05	96.95	96.85	96.75	96.65	96.55	96.44	96.34	98.3
98.4	97.46	97.36	97.26	97.16	97.06	96.96	96.86	96.76	96.66	96.56	96.45	98.4
98.5	97.56	97.47	97.37	97.27	97.17	97.07	96.97	96.87	96.77	96.67	96.57	98.5
98.6	97.67	97.57	97.48	97.38	97.28	97.18	97.08	96.98	96.88	96.78	96.68	98.6
98.7	97.78	97.68	97.58	97.49	97.39	97.29	97.19	97.09	96.99	96.89	96.79	98.7
98.8	97.88	97.79	97.69	97.60	97.50	97.40	97.30	97.20	97.10	97.00	96.90	98.8
98.9	97.99	97.89	97.80	97.70	97.61	97.51	97.41	97.31	97.22	97.12	97.02	98.9
99.0	98.10	98.00	97.91	97.81	97.72	97.62	97.52	97.43	97.33	97.23	97.13	99.0
99.1	98.20	98.11	98.02	97.92	97.83	97.73	97.63	97.54	97.44	97.34	97.24	99.1
99.2	98.31	98.22	98.12	98.03	97.94	97.84	97.74	97.65	97.55	97.45	97.36	99.2
99.3	98.42	98.32	98.23	98.14	98.04	97.95	97.86	97.76	97.66	97.57	97.47	99.3
99.4	98.52	98.43	98.34	98.25	98.15	98.06	97.97	97.87	97.78	97.68	97.58	99.4
99.5	98.63	98.54	98.45	98.36	98.26	98.17	98.08	97.98	97.89	97.79	97.70	99.5
99.6	98.74	98.65	98.56	98.47	98.37	98.28	98.19	98.09	98.00	97.91	97.81	99.6
99.7	98.84	98.76	98.67	98.57	98.48	98.39	98.30	98.21	98.11	98.02	97.92	99.7
99.8	98.95	98.86	98.77	98.68	98.59	98.50	98.41	98.32	98.23	98.13	98.04	99.8
99.9	99.06	98.97	98.88	98.79	98.70	98.61	98.52	98.43	98.34	98.25	98.15	99.9
100.0	99.17	99.08	98.99	98.90	98.82	98.73	98.64	98.54	98.45	98.36	98.27	100.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
18.0	15.11	14.96	14.81	14.66	14.51	14.37	14.22	14.07	13.92	13.77	13.62	18.0
18.1	15.19	15.05	14.90	14.75	14.60	14.45	14.30	14.15	14.00	13.85	13.70	18.1
18.2	15.28	15.13	14.99	14.84	14.69	14.54	14.39	14.24	14.09	13.94	13.79	18.2
18.3	15.37	15.22	15.07	14.92	14.77	14.63	14.48	14.33	14.17	14.02	13.87	18.3
18.4	15.46	15.31	15.16	15.01	14.86	14.71	14.56	14.41	14.26	14.11	13.96	18.4
18.5	15.55	15.40	15.25	15.10	14.95	14.80	14.65	14.50	14.35	14.19	14.04	18.5
18.6	15.64	15.49	15.34	15.19	15.04	14.88	14.73	14.58	14.43	14.28	14.13	18.6
18.7	15.73	15.58	15.42	15.27	15.12	14.97	14.82	14.67	14.52	14.36	14.21	18.7
18.8	15.81	15.66	15.51	15.36	15.21	15.06	14.91	14.75	14.60	14.45	14.30	18.8
18.9	15.90	15.75	15.60	15.45	15.30	15.14	14.99	14.84	14.69	14.53	14.38	18.9
19.0	15.99	15.84	15.69	15.54	15.38	15.23	15.08	14.92	14.77	14.62	14.47	19.0
19.1	16.08	15.93	15.78	15.62	15.47	15.32	15.16	15.01	14.86	14.70	14.55	19.1
19.2	16.17	16.02	15.86	15.71	15.56	15.40	15.25	15.10	14.94	14.79	14.63	19.2
19.3	16.26	16.10	15.95	15.80	15.64	15.49	15.34	15.18	15.03	14.87	14.72	19.3
19.4	16.35	16.28	16.04	15.88	15.73	15.58	15.42	15.27	15.11	14.96	14.80	19.4
19.5	16.44	16.28	16.13	15.97	15.82	15.66	15.51	15.35	15.20	15.04	14.89	19.5
19.6	16.52	16.37	16.21	16.06	15.90	15.75	15.59	15.44	15.28	15.13	14.97	19.6
19.7	16.61	16.46	16.30	16.15	15.99	15.84	15.68	15.53	15.37	15.21	15.06	19.7
19.8	16.70	16.55	16.39	16.23	16.08	15.92	15.77	15.61	15.45	15.30	15.14	19.8
19.9	16.79	16.63	16.48	16.32	16.17	16.01	15.85	15.70	15.54	15.38	15.23	19.9
20.0	16.88	16.72	16.57	16.41	16.25	16.10	15.94	15.78	15.63	15.47	15.31	20.0
20.1	16.97	16.81	16.65	16.50	16.34	16.18	16.03	15.87	15.71	15.55	15.40	20.1
20.2	17.06	16.90	16.74	16.58	16.43	16.27	16.11	15.95	15.80	15.64	15.48	20.2
20.3	17.15	16.99	16.83	16.67	16.51	16.36	16.20	16.04	15.88	15.72	15.57	20.3
20.4	17.23	17.08	16.92	16.76	16.60	16.44	16.28	16.13	15.97	15.81	15.65	20.4
20.5	17.32	17.17	17.01	16.85	16.69	16.53	16.37	16.21	16.05	15.89	15.74	20.5
20.6	17.41	17.25	17.09	16.94	16.78	16.62	16.46	16.30	16.14	15.98	15.82	20.6
20.7	17.50	17.34	17.18	17.02	16.86	16.70	16.54	16.38	16.22	16.07	15.91	20.7
20.8	17.59	17.43	17.27	17.11	16.95	16.79	16.63	16.47	16.31	16.15	15.99	20.8
20.9	17.68	17.52	17.36	17.20	17.04	16.88	16.72	16.56	16.40	16.24	16.08	20.9
21.0	17.77	17.61	17.45	17.29	17.13	16.96	16.80	16.64	16.48	16.32	16.16	21.0
21.1	17.86	17.70	17.54	17.37	17.21	17.05	16.89	16.73	16.57	16.41	16.25	21.1
21.2	17.95	17.79	17.62	17.46	17.30	17.14	16.98	16.82	16.65	16.49	16.33	21.2
21.3	18.04	17.87	17.71	17.55	17.39	17.23	17.06	16.90	16.74	16.58	16.42	21.3
21.4	18.13	17.96	17.80	17.64	17.48	17.31	17.15	16.99	16.83	16.66	16.50	21.4
21.5	18.22	18.05	17.89	17.73	17.56	17.40	17.24	17.07	16.91	16.75	16.59	21.5
21.6	18.30	18.14	17.98	17.81	17.65	17.49	17.32	17.16	17.00	16.83	16.67	21.6
21.7	18.39	18.23	18.07	17.90	17.74	17.57	17.41	17.25	17.08	16.92	16.76	21.7
21.8	18.48	18.32	18.15	17.99	17.83	17.66	17.50	17.33	17.17	17.01	16.84	21.8
21.9	18.57	18.41	18.24	18.08	17.91	17.75	17.58	17.42	17.26	17.09	16.93	21.9
22.0	18.66	18.50	18.33	18.17	18.00	17.84	17.67	17.51	17.34	17.18	17.01	22.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
22.0	18.66	18.50	18.33	18.17	18.00	17.84	17.67	17.51	17.34	17.18	17.01	22.0
22.1	18.75	18.59	18.42	18.26	18.09	17.92	17.76	17.59	17.43	17.26	17.10	22.1
22.2	18.84	18.68	18.51	18.34	18.18	18.01	17.85	17.68	17.52	17.35	17.18	22.2
22.3	18.93	18.76	18.60	18.43	18.27	18.10	17.93	17.77	17.60	17.44	17.27	22.3
22.4	19.02	18.85	18.69	18.52	18.35	18.19	18.02	17.85	17.69	17.52	17.36	22.4
22.5	19.11	18.94	18.78	18.61	18.44	18.27	18.11	17.94	17.77	17.61	17.44	22.5
22.6	19.20	19.03	18.87	18.70	18.53	18.36	18.20	18.03	17.86	17.69	17.53	22.6
22.7	19.29	19.12	18.95	18.79	18.62	18.45	18.28	18.12	17.95	17.78	17.61	22.7
22.8	19.38	19.21	19.04	18.87	18.71	18.54	18.37	18.20	18.03	17.87	17.70	22.8
22.9	19.47	19.30	19.13	18.96	18.79	18.63	18.46	18.29	18.12	17.95	17.79	22.9
23.0	19.56	19.39	19.22	19.05	18.88	18.71	18.55	18.38	18.21	18.04	17.87	23.0
23.1	19.65	19.48	19.31	19.14	18.97	18.80	18.63	18.46	18.30	18.13	17.96	23.1
23.2	19.74	19.57	19.40	19.23	19.06	18.89	18.72	18.55	18.38	18.21	18.04	23.2
23.3	19.83	19.66	19.49	19.32	19.15	18.98	18.81	18.64	18.47	18.30	18.13	23.3
23.4	19.92	19.75	19.58	19.41	19.24	19.07	18.90	18.73	18.56	18.39	18.22	23.4
23.5	20.01	19.84	19.67	19.50	19.33	19.16	18.98	18.81	18.64	18.47	18.30	23.5
23.6	20.10	19.93	19.76	19.59	19.42	19.24	19.07	18.90	18.73	18.56	18.39	23.6
23.7	20.19	20.02	19.85	19.68	19.50	19.33	19.16	18.99	18.82	18.65	18.48	23.7
23.8	20.28	20.11	19.94	19.77	19.59	19.42	19.25	19.08	18.91	18.73	18.56	23.8
23.9	20.37	20.20	20.03	19.85	19.68	19.51	19.34	19.17	18.99	18.82	18.65	23.9
24.0	20.47	20.29	20.12	19.94	19.77	19.60	19.43	19.25	19.08	18.91	18.74	24.0
24.1	20.56	20.38	20.21	20.03	19.86	19.69	19.51	19.34	19.17	19.00	18.82	24.1
24.2	20.65	20.47	20.30	20.12	19.95	19.78	19.60	19.43	19.26	19.08	18.91	24.2
24.3	20.74	20.56	20.39	20.21	20.04	19.86	19.69	19.52	19.34	19.17	19.00	24.3
24.4	20.83	20.65	20.48	20.30	20.13	19.95	19.78	19.61	19.43	19.26	19.08	24.4
24.5	20.92	20.74	20.57	20.39	20.22	20.04	19.87	19.69	19.52	19.35	19.17	24.5
24.6	21.01	20.83	20.66	20.48	20.31	20.13	19.96	19.78	19.61	19.43	19.26	24.6
24.7	21.10	20.93	20.75	20.57	20.40	20.22	20.05	19.87	19.70	19.52	19.35	24.7
24.8	21.19	21.02	20.84	20.66	20.49	20.31	20.13	19.96	19.78	19.61	19.43	24.8
24.9	21.29	21.11	20.93	20.75	20.58	20.40	20.22	20.05	19.87	19.70	19.52	24.9
25.0	21.38	21.20	21.02	20.84	20.67	20.49	20.31	20.14	19.96	19.79	19.61	25.0
25.1	21.47	21.29	21.11	20.93	20.76	20.58	20.40	20.23	20.05	19.87	19.70	25.1
25.2	21.56	21.38	21.20	21.02	20.85	20.67	20.49	20.31	20.14	19.96	19.79	25.2
25.3	21.65	21.47	21.29	21.11	20.94	20.76	20.58	20.40	20.23	20.05	19.87	25.3
25.4	21.74	21.56	21.38	21.21	21.03	20.85	20.67	20.49	20.32	20.14	19.96	25.4
25.5	21.83	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	20.23	20.05	25.5
25.6	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	20.32	20.14	25.6
25.7	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	20.23	25.7
25.8	22.11	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	20.31	25.8
25.9	22.20	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	25.9
26.0	22.30	22.11	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	26.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表(续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
26.0	22.30	22.11	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	26.0
26.1	22.39	22.21	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	26.1
26.2	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	26.2
26.3	22.57	22.39	22.21	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	26.3
26.4	22.66	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	20.85	26.4
26.5	22.76	22.57	22.39	22.21	22.03	21.84	21.66	21.48	21.30	21.12	20.94	26.5
26.6	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	26.6
26.7	22.94	22.76	22.57	22.39	22.21	22.03	21.84	21.66	21.48	21.30	21.12	26.7
26.8	23.04	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.20	26.8
26.9	23.13	22.94	22.76	22.58	22.39	22.21	22.02	21.84	21.66	21.48	21.29	26.9
27.0	23.22	23.04	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.38	27.0
27.1	23.32	23.13	22.94	22.76	22.57	22.39	22.21	22.02	21.84	21.66	21.47	27.1
27.2	23.41	23.22	23.04	22.85	22.67	22.48	22.30	22.11	21.93	21.75	21.56	27.2
27.3	23.50	23.32	23.13	22.94	22.76	22.57	22.39	22.20	22.02	21.84	21.65	27.3
27.4	23.59	23.41	23.22	23.04	22.85	22.67	22.48	22.30	22.11	21.93	21.74	27.4
27.5	23.69	23.50	23.31	23.13	22.94	22.76	22.57	22.39	22.20	22.02	21.83	27.5
27.6	23.78	23.59	23.41	23.22	23.03	22.85	22.66	22.48	22.29	22.11	21.92	27.6
27.7	23.88	23.69	23.50	23.31	23.13	22.94	22.76	22.57	22.38	22.20	22.01	27.7
27.8	23.97	23.78	23.59	23.41	23.22	23.03	22.85	22.66	22.48	22.29	22.11	27.8
27.9	24.06	23.88	23.69	23.50	23.31	23.13	22.94	22.75	22.57	22.38	22.20	27.9
28.0	24.16	23.97	23.78	23.59	23.40	23.22	23.03	22.84	22.66	22.47	22.29	28.0
28.1	24.25	24.06	23.87	23.69	23.50	23.31	23.12	22.94	22.75	22.56	22.38	28.1
28.2	24.35	24.16	23.97	23.78	23.59	23.40	23.22	23.03	22.84	22.65	22.47	28.2
28.3	24.44	24.25	24.06	23.87	23.68	23.50	23.31	23.12	22.93	22.75	22.56	28.3
28.4	24.53	24.34	24.15	23.97	23.78	23.59	23.40	23.21	23.02	22.84	22.65	28.4
28.5	24.63	24.44	24.25	24.06	23.87	23.68	23.49	23.30	23.12	22.93	22.74	28.5
28.6	24.72	24.53	24.34	24.15	23.96	23.77	23.59	23.40	23.21	23.02	22.83	28.6
28.7	24.82	24.63	24.44	24.25	24.06	23.87	23.68	23.49	23.30	23.11	22.93	28.7
28.8	24.91	24.72	24.53	24.34	24.15	23.96	23.77	23.58	23.39	23.20	23.02	28.8
28.9	25.01	24.82	24.62	24.43	24.24	24.05	23.86	23.67	23.49	23.30	23.11	28.9
29.0	25.10	24.91	24.72	24.53	24.34	24.15	23.96	23.77	23.58	23.39	23.20	29.0
29.1	25.20	25.00	24.81	24.62	24.43	24.24	24.05	23.86	23.67	23.48	23.29	29.1
29.2	25.29	25.10	24.91	24.72	24.52	24.33	24.14	23.95	23.76	23.57	23.38	29.2
29.3	25.39	25.19	25.00	24.81	24.62	24.43	24.24	24.05	23.86	23.67	23.48	29.3
29.4	25.48	25.29	25.10	24.90	24.71	24.52	24.33	24.14	23.95	23.76	23.57	29.4
29.5	25.58	25.38	25.19	25.00	24.81	24.62	24.42	24.23	24.04	23.85	23.66	29.5
29.6	25.67	25.48	25.29	25.09	24.90	24.71	24.52	24.33	24.14	23.94	23.75	29.6
29.7	25.77	25.57	25.38	25.19	25.00	24.80	24.61	24.42	24.23	24.04	23.85	29.7
29.8	25.86	25.67	25.48	25.28	25.09	24.90	24.71	24.51	24.32	24.13	23.94	29.8
29.9	25.96	25.76	25.57	25.38	25.18	24.99	24.80	24.61	24.42	24.22	24.03	29.9
30.0	26.05	25.86	25.67	25.47	25.28	25.09	24.89	24.70	24.51	24.32	24.13	30.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
30.0	26.05	25.86	25.67	25.47	25.28	25.09	24.89	24.70	24.51	24.32	24.13	30.0
30.1	26.15	25.96	25.76	25.57	25.37	25.18	24.99	24.80	24.60	24.41	24.22	30.1
30.2	26.25	26.05	25.86	25.66	25.47	25.28	25.08	24.89	24.70	24.50	24.31	30.2
30.3	26.34	26.15	25.95	25.76	25.56	25.37	25.18	24.98	24.79	24.60	24.41	30.3
30.4	26.44	26.24	26.05	25.85	25.66	25.46	25.27	25.08	24.88	24.69	24.50	30.4
30.5	26.53	26.34	26.14	25.95	25.75	25.56	25.37	25.17	24.98	24.79	24.59	30.5
30.6	26.63	26.43	26.24	26.04	25.85	25.65	25.46	25.27	25.07	24.88	24.69	30.6
30.7	26.73	26.53	26.33	26.14	25.94	25.75	25.56	25.36	25.17	24.97	24.78	30.7
30.8	26.82	26.63	26.43	26.23	26.04	25.84	25.65	25.46	25.26	25.07	24.87	30.8
30.9	26.92	26.72	26.53	26.33	26.14	25.94	25.75	25.55	25.36	25.16	24.97	30.9
31.0	27.01	26.82	26.62	26.43	26.23	26.04	25.84	25.65	25.45	25.26	25.06	31.0
31.1	27.11	26.91	26.72	26.52	26.33	26.13	25.94	25.74	25.55	25.35	25.16	31.1
31.2	27.21	27.01	26.81	26.62	26.42	26.23	26.03	25.84	25.64	25.45	25.25	31.2
31.3	27.30	27.11	26.91	26.71	26.52	26.32	26.13	25.93	25.74	25.54	25.35	31.3
31.4	27.40	27.20	27.01	26.81	26.61	26.42	26.22	26.03	25.83	25.64	25.44	31.4
31.5	27.50	27.30	27.10	26.91	26.71	26.51	26.32	26.12	25.93	25.73	25.54	31.5
31.6	27.60	27.40	27.20	27.00	26.81	26.61	26.41	26.22	26.02	25.83	25.63	31.6
31.7	27.69	27.49	27.30	27.10	26.90	26.71	26.51	26.31	26.12	25.92	25.73	31.7
31.8	27.79	27.59	27.39	27.20	27.00	26.80	26.61	26.41	26.21	26.02	25.82	31.8
31.9	27.89	27.69	27.49	27.29	27.10	26.90	26.70	26.50	26.31	26.11	25.92	31.9
32.0	27.98	27.79	27.59	27.39	27.19	26.99	26.80	26.60	26.40	26.21	26.01	32.0
32.1	28.08	27.88	27.68	27.49	27.29	27.09	26.89	26.70	26.50	26.30	26.11	32.1
32.2	28.18	27.98	27.78	27.58	27.39	27.19	26.99	26.79	26.60	26.40	26.20	32.2
32.3	28.28	28.08	27.88	27.68	27.48	27.28	27.09	26.89	26.69	26.50	26.30	32.3
32.4	28.37	28.18	27.98	27.78	27.58	27.38	27.18	26.99	26.79	26.59	26.39	32.4
32.5	28.47	28.27	28.07	27.88	27.68	27.48	27.28	27.08	26.88	26.69	26.49	32.5
32.6	28.57	28.37	28.17	27.97	27.77	27.58	27.38	27.18	26.98	26.78	26.59	32.6
32.7	28.67	28.47	28.27	28.07	27.87	27.67	27.47	27.28	27.08	26.88	26.68	32.7
32.8	28.77	28.57	28.37	28.17	27.97	27.77	27.57	27.37	27.17	26.98	26.78	32.8
32.9	28.86	28.66	28.46	28.26	28.07	27.87	27.67	27.47	27.27	27.07	26.87	32.9
33.0	28.96	28.76	28.56	28.36	28.16	27.96	27.77	27.57	27.37	27.17	26.97	33.0
33.1	29.06	28.86	28.66	28.46	28.26	28.06	27.86	27.66	27.46	27.27	27.07	33.1
33.2	29.16	28.96	28.76	28.56	28.36	28.16	27.96	27.76	27.56	27.36	27.16	33.2
33.3	29.26	29.06	28.86	28.66	28.46	28.26	28.06	27.86	27.66	27.46	27.26	33.3
33.4	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.96	27.76	27.56	27.36	33.4
33.5	29.45	29.25	29.05	28.85	28.65	28.45	28.25	28.05	27.85	27.65	27.46	33.5
33.6	29.55	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.95	27.75	27.55	33.6
33.7	29.65	29.45	29.25	29.05	28.85	28.65	28.45	28.25	28.05	27.85	27.65	33.7
33.8	29.75	29.55	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.95	27.75	33.8
33.9	29.85	29.65	29.45	29.24	29.04	28.84	28.64	28.44	28.24	28.04	27.84	33.9
34.0	29.95	29.75	29.54	29.34	29.14	28.94	28.74	28.54	28.34	28.14	27.94	34.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
34.0	29.95	29.75	29.54	29.34	29.14	28.94	28.74	28.54	28.34	28.14	27.94	34.0
34.1	30.05	29.84	29.64	29.44	29.24	29.04	28.84	28.64	28.44	28.24	28.04	34.1
34.2	30.14	29.94	29.74	29.54	29.34	29.14	28.94	28.74	28.54	28.34	28.14	34.2
34.3	30.24	30.04	29.84	29.64	29.44	29.24	29.04	28.84	28.64	28.43	28.23	34.3
34.4	30.34	30.14	29.94	29.74	29.54	29.34	29.13	28.93	28.73	28.53	28.33	34.4
34.5	30.44	30.24	30.04	29.84	29.64	29.43	29.23	29.03	28.83	28.63	28.43	34.5
34.6	30.54	30.34	30.14	29.94	29.73	29.53	29.33	29.13	28.93	28.73	28.53	34.6
34.7	30.64	30.44	30.24	30.03	29.83	29.63	29.43	29.23	29.03	28.83	28.63	34.7
34.8	30.74	30.54	30.34	30.13	29.93	29.73	29.53	29.33	29.13	28.93	28.73	34.8
34.9	30.84	30.64	30.43	30.23	30.03	29.83	29.63	29.43	29.23	29.02	28.82	34.9
35.0	30.94	30.74	30.53	30.33	30.13	29.93	29.73	29.53	29.32	29.12	28.92	35.0
35.1	31.04	30.84	30.63	30.43	30.23	30.03	29.83	29.62	29.42	29.22	29.02	35.1
35.2	31.14	30.93	30.73	30.53	30.33	30.13	29.93	29.72	29.52	29.32	29.12	35.2
35.3	31.24	31.03	30.83	30.63	30.43	30.23	30.02	29.82	29.62	29.42	29.22	35.3
35.4	31.34	31.13	30.93	30.73	30.53	30.33	30.12	29.92	29.72	29.52	29.32	35.4
35.5	31.44	31.23	31.03	30.83	30.63	30.42	30.22	30.02	29.82	29.62	29.42	35.5
35.6	31.54	31.33	31.13	30.93	30.73	30.52	30.32	30.12	29.92	29.72	29.51	35.6
35.7	31.64	31.43	31.23	31.03	30.83	30.62	30.42	30.22	30.02	29.82	29.61	35.7
35.8	31.74	31.53	31.33	31.13	30.93	30.72	30.52	30.32	30.12	29.91	29.71	35.8
35.9	31.84	31.63	31.43	31.23	31.03	30.82	30.62	30.42	30.22	30.01	29.81	35.9
36.0	31.94	31.73	31.53	31.33	31.13	30.92	30.72	30.52	30.32	30.11	29.91	36.0
36.1	32.04	31.83	31.63	31.43	31.23	31.02	30.82	30.62	30.42	30.21	30.01	36.1
36.2	32.14	31.93	31.73	31.53	31.33	31.12	30.92	30.72	30.52	30.31	30.11	36.2
36.3	32.24	32.03	31.83	31.63	31.43	31.22	31.02	30.82	30.62	30.41	30.21	36.3
36.4	32.34	32.13	31.93	31.73	31.53	31.32	31.12	30.92	30.71	30.51	30.31	36.4
36.5	32.44	32.23	32.03	31.83	31.63	31.42	31.22	31.02	30.81	30.61	30.41	36.5
36.6	32.54	32.33	32.13	31.93	31.73	31.52	31.32	31.12	30.91	30.71	30.51	36.6
36.7	32.64	32.43	32.23	32.03	31.83	31.62	31.42	31.22	31.01	30.81	30.61	36.7
36.8	32.74	32.54	32.33	32.13	31.93	31.72	31.52	31.32	31.12	30.91	30.71	36.8
36.9	32.84	32.64	32.43	32.23	32.03	31.82	31.62	31.42	31.22	31.01	30.81	36.9
37.0	32.94	32.74	32.53	32.33	32.13	31.92	31.72	31.52	31.32	31.11	30.91	37.0
37.1	33.04	32.84	32.63	32.43	32.23	32.02	31.82	31.62	31.42	31.21	31.01	37.1
37.2	33.14	32.94	32.73	32.53	32.33	32.13	31.92	31.72	31.52	31.31	31.11	37.2
37.3	33.24	33.04	32.83	32.63	32.43	32.23	32.02	31.82	31.62	31.41	31.21	37.3
37.4	33.34	33.14	32.94	32.73	32.53	32.33	32.12	31.92	31.72	31.51	31.31	37.4
37.5	33.44	33.24	33.04	32.83	32.63	32.43	32.22	32.02	31.82	31.62	31.41	37.5
37.6	33.54	33.34	33.14	32.93	32.73	32.53	32.32	32.12	31.92	31.72	31.51	37.6
37.7	33.64	33.44	33.24	33.04	32.83	32.63	32.43	32.22	32.02	31.82	31.61	37.7
37.8	33.75	33.54	33.34	33.14	32.93	32.73	32.53	32.32	32.12	31.92	31.71	37.8
37.9	33.85	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	32.02	31.81	37.9
38.0	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.53	32.32	32.12	31.92	38.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
38.0	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.53	32.32	32.12	31.92	38.0
38.1	34.05	33.85	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	32.02	38.1
38.2	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	32.32	32.12	38.2
38.3	34.25	34.05	33.84	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	38.3
38.4	34.35	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	32.32	38.4
38.5	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	32.62	32.42	38.5
38.6	34.55	34.35	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	38.6
38.7	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	32.62	38.7
38.8	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	32.93	32.73	38.8
38.9	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	38.9
39.0	34.96	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	32.93	39.0
39.1	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	39.1
39.2	35.16	34.96	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	39.2
39.3	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	39.3
39.4	35.37	35.16	34.96	34.76	34.55	34.35	34.15	33.95	33.74	33.54	33.34	39.4
39.5	35.47	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	39.5
39.6	35.57	35.37	35.16	34.96	34.76	34.55	34.35	34.15	33.95	33.74	33.54	39.6
39.7	35.67	35.47	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	39.7
39.8	35.77	35.57	35.37	35.16	34.96	34.76	34.56	34.35	34.15	33.95	33.74	39.8
39.9	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	33.85	39.9
40.0	35.97	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	33.95	40.0
40.1	36.08	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.46	34.25	34.05	40.1
40.2	36.18	35.98	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	40.2
40.3	36.28	36.08	35.88	35.67	35.47	35.27	35.07	34.86	34.66	34.46	34.25	40.3
40.4	36.38	36.18	35.98	35.78	35.57	35.37	35.17	34.97	34.76	34.56	34.36	40.4
40.5	36.48	36.28	36.08	35.88	35.68	35.47	35.27	35.07	34.86	34.66	34.46	40.5
40.6	36.59	36.38	36.18	35.98	35.78	35.57	35.37	35.17	34.97	34.76	34.56	40.6
40.7	36.69	36.49	36.28	36.08	35.88	35.68	35.47	35.27	35.07	34.87	34.66	40.7
40.8	36.79	36.59	36.39	36.18	35.98	35.78	35.58	35.37	35.17	34.97	34.77	40.8
40.9	36.89	36.69	36.49	36.29	36.08	35.88	35.68	35.48	35.27	35.07	34.87	40.9
41.0	36.99	36.79	36.59	36.39	36.19	35.98	35.78	35.58	35.38	35.17	34.97	41.0
41.1	37.10	36.89	36.69	36.49	36.29	36.09	35.88	35.68	35.48	35.28	35.07	41.1
41.2	37.20	37.00	36.79	36.59	36.39	36.19	35.99	35.78	35.58	35.38	35.18	41.2
41.3	37.30	37.10	36.90	36.69	36.49	36.29	36.09	35.89	35.68	35.48	35.28	41.3
41.4	37.40	37.20	37.00	36.80	36.60	36.39	36.19	35.99	35.79	35.58	35.38	41.4
41.5	37.50	37.30	37.10	36.90	36.70	36.50	36.29	36.09	35.89	35.69	35.48	41.5
41.6	37.61	37.40	37.20	37.00	36.80	36.60	36.40	36.19	35.99	35.79	35.59	41.6
41.7	37.71	37.51	37.31	37.10	36.90	36.70	36.50	36.30	36.09	35.89	35.69	41.7
41.8	37.81	37.61	37.41	37.21	37.01	36.8	36.60	36.40	36.20	36.00	35.79	41.8
41.9	37.91	37.71	37.51	37.31	37.11	36.91	36.70	36.50	36.30	36.10	35.90	41.9
42.0	38.01	37.81	37.61	37.41	37.21	37.01	36.81	36.61	36.40	36.20	36.00	42.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
42.0	38.01	37.81	37.61	37.41	37.21	37.01	36.81	36.61	36.40	36.20	36.00	42.0
42.1	38.12	37.92	37.72	37.51	37.31	37.11	36.91	36.71	36.51	36.30	36.10	42.1
42.2	38.22	38.02	37.82	37.62	37.42	37.21	37.01	36.81	36.61	36.41	36.20	42.2
42.3	38.32	38.12	37.92	37.72	37.52	37.32	37.12	36.91	36.71	36.51	36.31	42.3
42.4	38.42	38.22	38.02	37.82	37.62	37.42	37.22	37.02	36.81	36.61	36.41	42.4
42.5	38.53	38.33	38.12	37.92	37.72	37.52	37.32	37.12	36.92	36.72	36.51	42.5
42.6	38.63	38.43	38.23	38.03	37.83	37.62	37.42	37.22	37.02	36.82	36.62	42.6
42.7	38.73	38.53	38.33	38.13	37.93	37.73	37.53	37.33	37.12	36.92	36.72	42.7
42.8	38.83	38.63	38.43	38.23	38.03	37.83	37.63	37.43	37.23	37.03	36.82	42.8
42.9	38.94	38.74	38.53	38.33	38.13	37.93	37.73	37.53	37.33	37.13	36.93	42.9
43.0	39.04	38.84	38.64	38.44	38.24	38.04	37.84	37.63	37.43	37.23	37.03	43.0
43.1	39.14	38.94	38.74	38.54	38.34	38.14	37.94	37.74	37.54	37.33	37.13	43.1
43.2	39.24	39.04	38.84	38.64	38.44	38.24	38.04	37.84	37.64	37.44	37.24	43.2
43.3	39.34	39.15	38.95	38.75	38.55	38.34	38.14	37.94	37.74	37.54	37.34	43.3
43.4	39.45	39.25	39.05	38.85	38.65	38.45	38.25	38.05	37.85	37.64	37.44	43.4
43.5	39.55	39.35	39.15	38.95	38.75	38.55	38.35	38.15	37.95	37.75	37.55	43.5
43.6	39.65	39.45	39.25	39.05	38.85	38.65	38.45	38.25	38.05	37.85	37.65	43.6
43.7	39.75	39.56	39.36	39.16	38.96	38.76	38.56	38.36	38.16	37.95	37.75	43.7
43.8	39.86	39.66	39.46	39.26	39.06	38.86	38.66	38.46	38.26	38.06	37.86	43.8
43.9	39.96	39.76	39.56	39.36	39.16	38.96	38.76	38.56	38.36	38.16	37.96	43.9
44.0	40.06	39.86	39.66	39.46	39.27	39.07	38.87	38.67	38.47	38.26	38.06	44.0
44.1	40.16	39.97	39.77	39.57	39.37	39.17	38.97	38.77	38.57	38.37	38.17	44.1
44.2	40.27	40.07	39.87	39.67	39.47	39.27	39.07	38.87	38.67	38.47	38.27	44.2
44.3	40.37	40.17	39.97	39.77	39.57	39.37	39.18	38.98	38.78	38.58	38.37	44.3
44.4	40.47	40.27	40.07	39.88	39.68	39.48	39.28	39.08	38.88	38.68	38.48	44.4
44.5	40.57	40.38	40.18	39.98	39.78	39.58	39.38	39.18	38.98	38.78	38.58	44.5
44.6	40.68	40.48	40.28	40.08	39.88	39.68	39.48	39.29	39.09	38.89	38.69	44.6
44.7	40.78	40.58	40.38	40.18	39.99	39.79	39.59	39.39	39.19	38.99	38.79	44.7
44.8	40.88	40.68	40.49	40.29	40.09	39.89	39.69	39.49	39.29	39.09	38.89	44.8
44.9	40.98	40.79	40.59	40.39	40.19	39.99	39.79	39.60	39.40	39.20	39.00	44.9
45.0	41.09	40.89	40.69	40.49	40.29	40.10	39.90	39.70	39.50	39.30	39.10	45.0
45.1	41.19	40.99	40.79	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	45.1
45.2	41.29	41.09	40.90	40.70	40.50	40.30	40.10	39.91	39.71	39.51	39.31	45.2
45.3	41.39	41.20	41.00	40.80	40.60	40.41	40.21	40.01	39.81	39.61	39.41	45.3
45.4	41.50	41.30	41.10	40.90	40.71	40.51	40.31	40.11	39.91	39.71	39.51	45.4
45.5	41.60	41.40	41.21	41.01	40.81	40.61	40.41	40.22	40.02	39.82	39.62	45.5
45.6	41.70	41.51	41.31	41.11	40.91	40.72	40.52	40.32	40.12	39.92	39.72	45.6
45.7	41.81	41.61	41.41	41.21	41.02	40.82	40.62	40.42	40.22	40.03	39.83	45.7
45.8	41.91	41.71	41.51	41.32	41.12	40.92	40.72	40.53	40.33	40.13	39.93	45.8
45.9	42.01	41.81	41.62	41.42	41.22	41.02	40.83	40.63	40.43	40.23	40.03	45.9
46.0	42.11	41.92	41.72	41.52	41.33	41.13	40.93	40.73	40.53	40.34	40.14	46.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
46.0	42.11	41.92	41.72	41.52	41.33	41.13	40.93	40.73	40.53	40.34	40.14	46.0
46.1	42.22	42.02	41.82	41.63	41.43	41.23	41.03	40.84	40.64	40.44	40.24	46.1
46.2	42.32	42.12	41.93	41.73	41.53	41.33	41.14	40.94	40.74	40.54	40.35	46.2
46.3	42.42	42.22	42.03	41.83	41.63	41.44	41.24	41.04	40.85	40.65	40.45	46.3
46.4	42.52	42.33	42.13	41.93	41.74	41.54	41.34	41.15	40.95	40.75	40.55	46.4
46.5	42.63	42.43	42.23	42.04	41.84	41.64	41.45	41.25	41.05	40.85	40.66	46.5
46.6	42.73	42.53	42.34	42.14	41.94	41.75	41.55	41.35	41.16	40.96	40.76	46.6
46.7	42.83	42.64	42.44	42.24	42.05	41.85	41.65	41.46	41.26	41.06	40.86	46.7
46.8	42.93	42.74	42.54	42.35	42.15	41.95	41.76	41.56	41.36	41.17	40.97	46.8
46.9	43.04	42.84	42.65	42.45	42.25	42.06	41.86	41.66	41.47	41.27	41.07	46.9
47.0	43.14	42.94	42.75	42.55	42.36	42.16	41.96	41.77	41.57	41.37	41.18	47.0
47.1	43.24	43.05	42.85	42.66	42.46	42.26	42.07	41.87	41.67	41.48	41.28	47.1
47.2	43.34	43.15	42.95	42.76	42.56	42.37	42.17	41.97	41.78	41.58	41.38	47.2
47.3	43.45	43.25	43.06	42.86	42.67	42.47	42.27	42.08	41.88	41.68	41.49	47.3
47.4	43.55	43.35	43.16	42.96	42.77	42.57	42.38	42.18	41.98	41.79	41.59	47.4
47.5	43.65	43.46	43.26	43.07	42.87	42.68	42.48	42.28	42.09	41.89	41.70	47.5
47.6	43.75	43.56	43.37	43.17	42.98	42.78	42.58	42.39	42.19	42.00	41.80	47.6
47.7	43.86	43.66	43.47	43.27	43.08	42.88	42.69	42.49	42.30	42.10	41.90	47.7
47.8	43.96	43.77	43.57	43.38	43.18	42.99	42.79	42.60	42.40	42.20	42.01	47.8
47.9	44.06	43.87	43.67	43.48	43.28	43.09	42.89	42.70	42.50	42.31	42.11	47.9
48.0	44.17	43.97	43.78	43.58	43.39	43.19	43.00	42.80	42.61	42.41	42.21	48.0
48.1	44.27	44.07	43.88	43.69	43.49	43.30	43.10	42.91	42.71	42.51	42.32	48.1
48.2	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.01	42.81	42.62	42.42	48.2
48.3	44.47	44.28	44.09	43.89	43.70	43.50	43.31	43.11	42.92	42.72	42.53	48.3
48.4	44.58	44.38	44.19	43.99	43.80	43.61	43.41	43.22	43.02	42.83	42.63	48.4
48.5	44.68	44.49	44.29	44.10	43.90	43.71	43.51	43.32	43.12	42.93	42.73	48.5
48.6	44.78	44.59	44.39	44.20	44.01	43.81	43.62	43.42	43.23	43.03	42.84	48.6
48.7	44.88	44.69	44.50	44.30	44.11	43.92	43.72	43.53	43.33	43.14	42.94	48.7
48.8	44.99	44.79	44.60	44.41	44.21	44.02	43.82	43.63	43.44	43.24	43.05	48.8
48.9	45.09	44.90	44.70	44.51	44.32	44.12	43.93	43.73	43.54	43.34	43.15	48.9
49.0	45.19	45.00	44.81	44.61	44.42	44.23	44.03	43.84	43.64	43.45	43.25	49.0
49.1	45.29	45.10	44.91	44.72	44.52	44.33	44.13	43.94	43.75	43.55	43.36	49.1
49.2	45.40	45.20	45.01	44.82	44.63	44.43	44.24	44.04	43.85	43.66	43.46	49.2
49.3	45.50	45.31	45.11	44.92	44.73	44.53	44.34	44.15	43.95	43.76	43.56	49.3
49.4	45.60	45.41	45.22	45.02	44.83	44.64	44.44	44.25	44.06	43.86	43.67	49.4
49.5	45.70	45.51	45.32	45.13	44.93	44.74	44.55	44.35	44.16	43.97	43.77	49.5
49.6	45.81	45.61	45.42	45.23	45.04	44.84	44.65	44.46	44.26	44.07	43.88	49.6
49.7	45.91	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.37	44.17	43.98	49.7
49.8	46.01	45.82	45.63	45.44	45.24	45.05	44.86	44.66	44.47	44.28	44.08	49.8
49.9	46.11	45.92	45.73	45.54	45.35	45.15	44.96	44.77	44.57	44.38	44.19	49.9
50.0	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	44.49	44.29	50.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
50.0	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	44.49	44.29	50.0
50.1	46.32	46.13	45.94	45.74	45.55	45.36	45.17	44.98	44.78	44.59	44.40	50.1
50.2	46.42	46.23	46.04	45.85	45.66	45.46	45.27	45.08	44.89	44.69	44.50	50.2
50.3	46.52	46.33	46.14	45.95	45.76	45.57	45.37	45.18	44.99	44.80	44.60	50.3
50.4	46.63	46.44	46.25	46.05	45.86	45.67	45.48	45.29	45.09	44.90	44.71	50.4
50.5	46.73	46.54	46.35	46.16	45.96	45.77	45.58	45.39	45.20	45.00	44.81	50.5
50.6	46.83	46.64	46.45	46.26	46.07	45.88	45.68	45.49	45.30	45.11	44.91	50.6
50.7	46.94	46.74	46.55	46.36	46.17	45.98	45.79	45.60	45.40	45.21	45.02	50.7
50.8	47.04	46.85	46.66	46.47	46.27	46.08	45.89	45.70	45.51	45.31	45.12	50.8
50.9	47.14	46.95	46.76	46.57	46.38	46.19	45.99	45.80	45.61	45.42	45.23	50.9
51.0	47.24	47.05	46.86	46.67	46.48	46.29	46.10	45.91	45.71	45.52	45.33	51.0
51.1	47.35	47.15	46.96	46.77	46.58	46.39	46.20	46.01	45.82	45.63	45.43	51.1
51.2	47.45	47.26	47.07	46.88	46.69	46.49	46.30	46.11	45.92	45.73	45.54	51.2
51.3	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	46.02	45.83	45.64	51.3
51.4	47.65	47.46	47.27	47.08	46.89	46.70	46.51	46.32	46.13	45.94	45.74	51.4
51.5	47.76	47.57	47.38	47.19	46.99	46.80	46.61	46.42	46.23	46.04	45.85	51.5
51.6	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.53	46.33	46.14	45.95	51.6
51.7	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	46.44	46.25	46.06	51.7
51.8	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	46.54	46.35	46.16	51.8
51.9	48.16	47.98	47.79	47.60	47.41	47.22	47.03	46.84	46.64	46.45	46.26	51.9
52.0	48.27	48.00	47.89	47.70	47.51	47.32	47.13	46.94	46.75	46.56	46.37	52.0
52.1	48.37	48.18	47.99	47.80	47.61	47.42	47.23	47.04	46.85	46.66	46.47	52.1
52.2	48.47	48.28	48.09	47.90	47.72	47.53	47.34	47.15	46.96	46.76	46.57	52.2
52.3	48.57	48.39	48.20	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.68	52.3
52.4	48.68	48.49	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	52.4
52.5	48.78	48.59	48.40	48.21	48.02	47.84	47.65	47.46	47.26	47.08	46.88	52.5
52.6	48.88	48.69	48.50	48.32	48.13	47.94	47.75	47.56	47.37	47.18	46.99	52.6
52.7	48.98	48.80	48.61	48.42	48.23	48.04	47.85	47.66	47.47	47.28	47.09	52.7
52.8	49.09	48.90	48.71	48.52	48.33	48.14	47.95	47.77	47.57	47.39	47.20	52.8
52.9	49.19	49.00	48.81	48.62	48.44	48.25	48.06	47.87	47.68	47.49	47.30	52.9
53.0	49.29	49.10	48.92	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	53.0
53.1	49.39	49.21	49.02	48.83	48.64	48.45	48.26	48.07	47.89	47.70	47.51	53.1
53.2	49.50	49.31	49.12	48.93	48.74	48.56	48.37	48.18	47.99	47.80	47.61	53.2
53.3	49.60	49.41	49.22	49.04	48.85	48.66	48.47	48.28	48.09	47.90	47.71	53.3
53.4	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.38	48.20	48.01	47.82	53.4
53.5	49.80	49.62	49.43	49.24	49.05	48.86	48.68	48.49	48.30	48.11	47.92	53.5
53.6	49.91	49.72	49.53	49.34	49.16	48.97	48.78	48.59	48.40	48.21	48.02	53.6
53.7	50.01	49.82	49.63	49.45	49.26	49.07	48.88	48.69	48.51	48.32	48.13	53.7
53.8	50.11	49.92	49.74	49.55	49.36	49.17	48.99	48.80	48.61	48.42	48.23	53.8
53.9	50.21	50.03	49.84	49.65	49.46	49.28	49.09	48.90	48.71	48.52	48.33	53.9
54.0	50.32	50.13	49.94	49.75	49.57	49.38	49.19	49.00	48.82	48.63	48.44	54.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
54.0	50.32	50.13	49.94	49.75	49.57	49.38	49.19	49.00	48.82	48.63	48.44	54.0
54.1	50.42	50.23	50.04	49.86	49.67	49.48	49.29	49.11	48.92	48.73	48.54	54.1
54.2	50.52	50.33	50.15	49.96	49.77	49.58	49.40	49.21	49.02	48.93	48.64	54.2
54.3	50.62	50.44	50.25	50.06	49.88	49.69	49.50	49.31	49.12	48.94	48.75	54.3
54.4	50.72	50.54	50.35	50.16	49.98	49.79	49.60	49.42	49.23	49.04	48.85	54.4
54.5	50.83	50.64	50.45	50.27	50.08	49.89	49.71	49.52	49.33	49.14	48.96	54.5
54.6	50.93	50.74	50.56	50.37	50.18	50.00	49.81	49.62	49.43	49.25	49.06	54.6
54.7	51.03	50.85	50.66	50.47	50.29	50.10	49.91	49.72	49.54	49.35	49.16	54.7
54.8	51.13	50.95	50.76	50.58	50.39	50.20	50.02	49.83	49.64	49.45	49.27	54.8
54.9	51.24	51.05	50.86	50.68	50.49	50.30	50.12	49.93	49.74	49.56	49.37	54.9
55.0	51.34	51.15	50.97	50.78	50.59	50.41	50.22	50.03	49.85	49.66	49.47	55.0
55.1	51.44	51.25	51.07	50.88	50.70	50.51	50.32	50.14	49.95	49.76	49.58	55.1
55.2	51.54	51.36	51.17	50.99	50.80	50.61	50.43	50.24	50.05	49.87	49.68	55.2
55.3	51.64	51.46	51.27	51.09	50.90	50.72	50.53	50.34	50.16	49.97	49.78	55.3
55.4	51.75	51.56	51.38	51.19	51.01	50.82	50.63	50.45	50.26	50.07	49.89	55.4
55.5	51.85	51.66	51.48	51.29	51.11	50.92	50.74	50.55	50.36	50.18	49.99	55.5
55.6	51.95	51.77	51.58	51.40	51.21	51.02	50.84	50.65	50.47	50.28	50.09	55.6
55.7	52.05	51.87	51.68	51.50	51.31	51.13	50.94	50.76	50.57	50.38	50.20	55.7
55.8	52.16	51.97	51.79	51.60	51.42	51.23	51.04	50.86	50.67	50.49	50.30	55.8
55.9	52.26	52.07	51.89	51.70	51.52	51.33	51.15	50.96	50.78	50.59	50.40	55.9
56.0	52.36	52.18	51.99	51.81	51.62	51.44	51.25	51.06	50.88	50.69	50.51	56.0
56.1	52.46	52.28	52.09	51.91	51.72	51.54	51.35	51.17	50.98	50.80	50.61	56.1
56.2	52.57	52.38	52.20	52.01	51.83	51.64	51.46	51.27	51.08	50.90	50.71	56.2
56.3	52.67	52.48	52.30	52.11	51.93	51.74	51.56	51.37	51.19	51.00	50.82	56.3
56.4	52.77	52.59	52.40	52.22	52.03	51.85	51.66	51.48	51.29	51.10	50.92	56.4
56.5	52.87	52.69	52.50	52.32	52.13	51.95	51.76	51.58	51.39	51.21	51.02	56.5
56.6	52.97	52.79	52.61	52.42	52.24	52.05	51.87	51.68	51.50	51.31	51.13	56.6
56.7	53.08	52.89	52.71	52.52	52.34	52.15	51.97	51.78	51.60	51.41	51.23	56.7
56.8	53.18	52.99	52.81	52.63	52.44	52.26	52.07	51.89	51.70	51.52	51.33	56.8
56.9	53.28	53.10	52.91	52.73	52.54	52.36	52.18	51.99	51.81	51.62	51.43	56.9
57.0	53.38	53.20	53.02	52.83	52.65	52.46	52.28	52.09	51.91	51.72	51.54	57.0
57.1	53.48	53.30	53.12	52.93	52.75	52.57	52.38	52.20	52.01	51.83	51.64	57.1
57.2	53.59	53.40	53.22	53.04	52.85	52.67	52.48	52.30	52.11	51.93	51.74	57.2
57.3	53.69	53.51	53.32	53.14	52.95	52.77	52.59	52.40	52.22	52.03	51.85	57.3
57.4	53.79	53.61	53.42	53.24	53.06	52.87	52.69	52.51	52.32	52.14	51.95	57.4
57.5	53.89	53.71	53.53	53.34	53.16	52.98	52.79	52.61	52.42	52.24	52.05	57.5
57.6	54.00	53.81	53.63	53.45	53.26	53.08	52.89	52.71	52.53	52.34	52.16	57.6
57.7	54.10	53.91	53.73	53.55	53.37	53.18	53.00	52.81	52.63	52.45	52.26	57.7
57.8	54.20	54.02	53.83	53.65	53.47	53.28	53.10	52.92	52.73	52.55	52.36	57.8
57.9	54.30	54.12	53.94	53.75	53.57	53.39	53.20	53.02	52.84	52.65	52.47	57.9
58.0	54.40	54.22	54.04	53.86	53.67	53.49	53.31	53.12	52.94	52.75	52.57	58.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
58.0	54.40	54.22	54.04	53.86	53.67	53.49	53.31	53.12	52.94	52.75	52.57	58.0
58.1	54.51	54.32	54.14	53.96	53.78	53.59	53.41	53.23	53.04	52.86	52.67	58.1
58.2	54.61	54.43	54.24	54.06	53.88	53.69	53.51	53.33	53.14	52.96	52.78	58.2
58.3	54.71	54.53	54.35	54.16	53.98	53.80	53.61	53.43	53.25	53.06	52.88	58.3
58.4	54.81	54.63	54.45	54.27	54.08	53.90	53.72	53.53	53.35	53.17	52.98	58.4
58.5	54.91	54.73	54.55	54.37	54.19	54.00	53.82	53.64	53.45	53.27	53.09	58.5
58.6	55.02	54.84	54.65	54.47	54.29	54.11	53.92	53.74	53.56	53.37	53.19	58.6
58.7	55.12	54.94	54.76	54.57	54.39	54.21	54.03	53.84	53.66	53.48	53.29	58.7
58.8	55.22	55.04	54.86	54.68	54.49	54.31	54.13	53.94	53.76	53.58	53.39	58.8
58.9	55.32	55.14	54.96	54.78	54.60	54.41	54.23	54.05	53.86	53.68	53.50	58.9
59.0	55.43	55.24	55.06	54.88	54.70	54.52	54.33	54.15	53.97	53.78	53.60	59.0
59.1	55.53	55.35	55.16	54.98	54.80	54.62	54.44	54.25	54.07	53.89	53.70	59.1
59.2	55.63	55.45	55.27	55.09	54.90	54.72	54.54	54.36	54.17	53.99	53.81	59.2
59.3	55.73	55.55	55.37	55.19	55.01	54.82	54.64	54.46	54.28	54.09	53.91	59.3
59.4	55.83	55.65	55.47	55.29	55.11	54.93	54.74	54.56	54.38	54.20	54.01	59.4
59.5	55.94	55.76	55.57	55.39	55.21	55.03	54.85	54.66	54.48	54.30	54.12	59.5
59.6	56.04	55.86	55.68	55.49	55.31	55.13	54.95	54.77	54.58	54.40	54.22	59.6
59.7	56.14	55.96	55.78	55.60	55.42	55.23	55.05	54.87	54.69	54.51	54.32	59.7
59.8	56.24	56.06	55.88	55.70	55.52	55.34	55.15	54.97	54.79	54.61	54.43	59.8
59.9	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.89	54.71	54.53	59.9
60.0	56.45	56.27	56.09	55.90	55.72	55.54	55.36	55.18	55.00	54.81	54.63	60.0
60.1	56.55	56.37	56.19	56.01	55.83	55.64	55.46	55.28	55.10	54.92	54.73	60.1
60.2	56.65	56.47	56.29	56.11	55.93	55.75	55.57	55.38	55.20	55.02	54.84	60.2
60.3	56.75	56.57	56.39	56.21	56.03	55.85	55.67	55.49	55.30	55.12	54.94	60.3
60.4	56.85	56.67	56.49	56.31	56.13	55.95	55.77	55.59	55.41	55.23	55.04	60.4
60.5	56.96	56.78	56.60	56.42	56.24	56.05	55.87	55.69	55.51	55.33	55.15	60.5
60.6	57.06	56.88	56.70	56.52	56.34	56.16	55.98	55.79	55.61	55.43	55.25	60.6
60.7	57.16	56.98	56.80	56.62	56.44	56.26	56.08	55.90	55.72	55.53	55.35	60.7
60.8	57.26	57.08	56.90	56.72	56.54	56.36	56.18	56.00	55.82	55.64	55.46	60.8
60.9	57.37	57.19	57.01	56.83	56.65	56.46	56.28	56.10	55.92	55.74	55.56	60.9
61.0	57.47	57.29	57.11	56.93	56.75	56.57	56.39	56.21	56.02	55.84	55.66	61.0
61.1	57.57	57.39	57.21	57.03	56.85	56.67	56.49	56.31	56.13	55.95	55.77	61.1
61.2	57.67	57.49	57.31	57.13	56.95	56.77	56.59	56.41	56.23	56.05	55.87	61.2
61.3	57.77	57.59	57.42	57.24	57.06	56.88	56.69	56.51	56.33	56.15	55.97	61.3
61.4	57.88	57.70	57.52	57.34	57.16	56.98	56.80	56.62	56.44	56.26	56.07	61.4
61.5	57.98	57.80	57.62	57.44	57.26	57.08	56.90	56.72	56.54	56.36	56.18	61.5
61.6	58.08	57.90	57.72	57.54	57.36	57.18	57.00	56.82	56.64	56.46	56.28	61.6
61.7	58.18	58.00	57.82	57.64	57.47	57.29	57.11	56.93	56.74	56.56	56.38	61.7
61.8	58.28	58.11	57.93	57.75	57.57	57.39	57.21	57.03	56.85	56.67	56.49	61.8
61.9	58.39	58.21	58.03	57.85	57.67	57.49	57.31	57.13	56.95	56.77	56.59	61.9
62.0	58.49	58.31	58.13	57.95	57.77	57.59	57.41	57.23	57.05	56.87	56.69	62.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
62.0	58.49	58.31	58.13	57.95	57.77	57.59	57.41	57.23	57.05	56.87	56.69	62.0
62.1	58.59	58.41	58.23	58.05	57.88	57.70	57.52	57.34	57.16	56.98	56.80	62.1
62.2	58.69	58.51	58.34	58.16	57.98	57.80	57.62	57.44	57.26	57.08	56.90	62.2
62.3	58.79	58.62	58.44	58.26	58.08	57.90	57.72	57.54	57.36	57.18	57.00	62.3
62.4	58.90	58.72	58.54	58.36	58.18	58.00	57.82	57.64	57.46	57.28	57.10	62.4
62.5	59.00	58.82	58.64	58.46	58.29	58.11	57.93	57.75	57.57	57.39	57.21	62.5
62.6	59.10	58.92	58.75	58.57	58.39	58.21	58.03	57.85	57.67	57.49	57.31	62.6
62.7	59.20	59.03	58.85	58.67	58.49	58.31	58.13	57.95	57.77	57.59	57.41	62.7
62.8	59.31	59.13	58.95	58.77	58.59	58.41	58.23	58.06	57.88	57.70	57.52	62.8
62.9	59.41	59.23	59.05	58.87	58.70	58.52	58.34	58.16	57.98	57.80	57.62	62.9
63.0	59.51	59.33	59.15	58.98	58.80	58.62	58.44	58.26	58.08	57.90	57.72	63.0
63.1	59.61	59.43	59.26	59.08	58.90	58.72	58.54	58.36	58.18	58.01	57.83	63.1
63.2	59.71	59.54	59.36	59.18	59.00	58.82	58.65	58.47	58.29	58.11	57.93	63.2
63.3	59.82	59.64	59.46	59.28	59.11	58.93	58.75	58.57	58.39	58.21	58.03	63.3
63.4	59.92	59.74	59.56	59.39	59.21	59.03	58.85	58.67	58.49	58.42	58.13	63.4
63.5	60.02	59.84	59.67	59.49	59.31	59.13	58.95	58.78	58.60	58.31	58.24	63.5
63.6	60.12	59.95	59.77	59.59	59.41	59.23	59.06	58.88	58.70	58.52	58.34	63.6
63.7	60.22	60.05	59.87	59.69	59.52	59.34	59.16	58.98	58.80	58.62	58.44	63.7
63.8	60.33	60.15	59.97	59.80	59.62	59.44	59.26	59.08	58.90	58.73	58.55	63.8
63.9	60.43	60.25	60.08	59.90	59.72	59.54	59.36	59.19	59.01	58.83	58.65	63.9
64.0	60.53	60.35	60.18	60.00	59.82	59.65	59.47	59.29	59.11	58.93	58.75	64.0
64.1	60.63	60.46	60.28	60.10	59.93	59.75	59.57	59.39	59.21	59.04	58.86	64.1
64.2	60.74	60.56	60.38	60.21	60.03	59.85	59.67	59.49	59.32	59.14	58.96	64.2
64.3	60.84	60.66	60.48	60.31	60.13	59.95	59.78	59.60	59.42	59.24	59.06	64.3
64.4	60.94	60.76	60.59	60.41	60.23	60.06	59.88	59.70	59.52	59.34	59.17	64.4
64.5	61.04	60.87	60.69	60.51	60.34	60.16	59.98	59.80	59.63	59.45	59.27	64.5
64.6	61.14	60.97	60.79	60.62	60.44	60.26	60.08	59.91	59.73	59.55	59.37	64.6
64.7	61.25	61.07	60.89	60.72	60.54	60.36	60.19	60.01	59.83	59.65	59.47	64.7
64.8	61.35	61.17	61.00	60.82	60.64	60.47	60.29	60.11	59.93	59.76	59.58	64.8
64.9	61.45	61.28	61.10	60.92	60.75	60.57	60.39	60.21	60.04	59.86	59.68	64.9
65.0	61.55	61.38	61.20	61.03	60.85	60.67	60.49	60.32	60.14	59.96	59.78	65.0
65.1	61.66	61.48	61.30	61.13	60.95	60.77	60.60	60.42	60.24	60.07	59.89	65.1
65.2	61.76	61.58	61.41	61.23	61.05	60.88	60.70	60.52	60.35	60.17	59.99	65.2
65.3	61.86	61.68	61.51	61.33	61.16	60.98	60.80	60.63	60.45	60.27	60.09	65.3
65.4	61.96	61.79	61.61	61.44	61.26	61.08	60.91	60.73	60.55	60.37	60.20	65.4
65.5	62.06	61.89	61.71	61.54	61.36	61.19	61.01	60.83	60.65	60.48	60.30	65.5
65.6	62.17	61.99	61.82	61.64	61.46	61.29	61.11	60.93	60.76	60.58	60.40	65.6
65.7	62.27	62.09	61.92	61.74	61.57	61.39	61.21	61.04	60.86	60.68	60.51	65.7
65.8	62.37	62.20	62.02	61.85	61.67	61.49	61.32	61.14	60.96	60.79	60.61	65.8
65.9	62.47	62.30	62.12	61.95	61.77	61.60	61.42	61.24	61.07	60.89	60.71	65.9
66.0	62.58	62.40	62.23	62.05	61.87	61.70	61.52	61.35	61.17	60.99	60.82	66.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
66.0	62.58	62.40	62.23	62.05	61.87	61.70	61.52	61.35	61.17	60.99	60.82	66.0
66.1	62.68	62.50	62.33	62.15	61.98	61.80	61.63	61.45	61.27	61.10	60.92	66.1
66.2	62.78	62.61	62.43	62.26	62.08	61.90	61.73	61.55	61.38	61.20	61.02	66.2
66.3	62.88	62.71	62.53	62.36	62.18	62.01	61.83	61.66	61.48	61.30	61.13	66.3
66.4	62.98	62.81	62.64	62.46	62.29	62.11	61.93	61.76	61.58	61.41	61.23	66.4
66.5	63.09	62.91	62.74	62.56	62.39	62.21	62.04	61.86	61.69	61.51	61.33	66.5
66.6	63.19	63.01	62.84	62.67	62.49	62.32	62.14	61.96	61.79	61.61	61.44	66.6
66.7	63.29	63.12	62.94	62.77	62.59	62.42	62.24	62.07	61.89	61.72	61.54	66.7
66.8	63.39	63.22	63.05	62.87	62.70	62.52	62.35	62.17	61.99	61.82	61.64	66.8
66.9	63.50	63.32	63.15	62.97	62.80	62.62	62.45	62.27	62.10	61.92	61.75	66.9
67.0	63.60	63.42	63.25	63.08	62.90	62.73	62.55	62.38	62.20	62.02	61.85	67.0
67.1	63.70	63.53	63.35	63.18	63.00	62.83	62.65	62.48	62.30	62.13	61.95	67.1
67.2	63.80	63.63	63.46	63.28	63.11	62.93	62.76	62.58	62.41	62.23	62.05	67.2
67.3	63.90	63.73	63.56	63.38	63.21	63.04	62.86	62.69	62.51	62.33	62.16	67.3
67.4	64.01	63.83	63.66	63.49	63.31	63.14	62.96	62.79	62.61	62.44	62.26	67.4
67.5	64.11	63.94	63.76	63.59	63.42	63.24	63.07	62.89	62.72	62.54	62.36	67.5
67.6	64.21	64.04	63.87	63.69	63.52	63.34	63.17	62.99	62.82	62.64	62.47	67.6
67.7	64.31	64.14	63.97	63.79	63.62	63.45	63.27	63.10	62.92	62.75	62.57	67.7
67.8	64.42	64.24	64.07	63.90	63.72	63.55	63.38	63.20	63.03	62.85	62.67	67.8
67.9	64.52	64.35	64.17	64.00	63.83	63.65	63.48	63.30	63.13	62.95	62.78	67.9
68.0	64.62	64.45	64.28	64.10	63.93	63.76	63.58	63.41	63.23	63.06	62.88	68.0
68.1	64.72	64.55	64.38	64.21	64.03	63.86	63.68	63.51	63.34	63.16	62.98	68.1
68.2	64.83	64.65	64.48	64.31	64.13	63.96	63.79	63.61	63.44	63.26	63.09	68.2
68.3	64.93	64.76	64.58	64.41	64.24	64.06	63.89	63.72	63.54	63.37	63.19	68.3
68.4	65.03	64.86	64.69	64.51	64.34	64.17	63.99	63.82	63.64	63.47	63.30	68.4
68.5	65.13	64.96	64.79	64.62	64.44	64.27	64.10	63.92	63.75	63.57	63.40	68.5
68.6	65.24	65.06	64.89	64.72	64.55	64.37	64.20	64.03	63.85	63.68	63.50	68.6
68.7	65.34	65.17	64.99	64.82	64.65	64.48	64.30	64.13	63.95	63.78	63.61	68.7
68.8	65.44	65.27	65.10	64.92	64.75	64.58	64.41	64.23	64.06	63.88	63.71	68.8
68.9	65.54	65.37	65.20	65.03	64.85	64.68	64.51	64.33	64.16	63.99	63.81	68.9
69.0	65.64	65.47	65.30	65.13	64.96	64.78	64.61	64.44	64.26	64.09	63.92	69.0
69.1	65.75	65.58	65.40	65.23	65.06	64.89	64.71	64.54	64.37	64.19	64.02	69.1
69.2	65.85	65.68	65.51	65.33	65.16	64.99	64.82	64.64	64.47	64.30	64.12	69.2
69.3	65.95	65.78	65.61	65.44	65.27	65.09	64.92	64.75	64.57	64.40	64.23	69.3
69.4	66.05	65.88	65.71	65.54	65.37	65.20	65.02	64.85	64.68	64.50	64.33	69.4
69.5	66.16	65.99	65.81	65.64	65.47	65.30	65.13	64.95	64.78	64.61	64.43	69.5
69.6	66.26	66.09	65.92	65.75	65.57	65.40	65.23	65.06	64.88	64.71	64.54	69.6
69.7	66.36	66.19	66.02	65.85	65.68	65.51	65.33	65.16	64.99	64.81	64.64	69.7
69.8	66.46	66.29	66.12	65.95	65.78	65.61	65.44	65.26	65.09	64.92	64.74	69.8
69.9	66.57	66.40	66.23	66.05	65.88	65.71	65.54	65.37	65.19	65.02	64.85	69.9
70.0	66.67	66.50	66.33	66.16	65.99	65.82	65.64	65.47	65.30	65.13	64.95	70.0



表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
70.0	66.67	66.50	66.33	66.16	65.99	65.82	65.64	65.47	65.30	65.13	64.95	70.0
70.1	66.77	66.60	66.43	66.26	66.09	65.92	65.75	65.57	65.40	65.23	65.06	70.1
70.2	66.87	66.70	66.53	66.36	66.19	66.02	65.85	65.68	65.51	65.33	65.16	70.2
70.3	66.98	66.81	66.64	66.47	66.30	66.12	65.95	65.78	65.61	65.44	65.26	70.3
70.4	67.08	66.91	66.74	66.57	66.40	66.23	66.06	65.88	65.71	65.54	65.37	70.4
70.5	67.18	67.01	66.84	66.67	66.50	66.33	66.16	65.99	65.82	65.64	65.47	70.5
70.6	67.28	67.12	66.95	66.77	66.60	66.43	66.26	66.09	65.92	65.75	65.57	70.6
70.7	67.39	67.22	67.05	66.88	66.71	66.54	66.37	66.19	66.02	65.85	65.68	70.7
70.8	67.49	67.32	67.15	66.98	66.81	66.64	66.47	66.30	66.13	65.95	65.78	70.8
70.9	67.59	67.42	67.25	67.08	66.91	66.74	66.57	66.40	66.23	66.06	65.88	70.9
71.0	67.69	67.53	67.36	67.19	67.02	66.85	66.68	66.50	66.33	66.16	65.99	71.0
71.1	67.80	67.63	67.46	67.29	67.12	66.95	66.68	66.61	66.44	66.26	66.09	71.1
71.2	67.90	67.73	67.56	67.39	67.22	67.05	66.88	66.71	66.54	66.37	66.20	71.2
71.3	68.00	67.83	67.66	67.50	67.33	67.16	66.98	66.81	66.64	66.47	66.30	71.3
71.4	68.10	67.94	67.77	67.60	67.43	67.26	67.09	66.92	66.75	66.57	66.40	71.4
71.5	68.21	68.04	67.87	67.70	67.53	67.36	67.19	67.02	66.85	66.68	66.51	71.5
71.6	68.31	68.14	67.97	67.80	67.63	67.46	67.29	67.12	66.95	66.78	66.61	71.6
71.7	68.41	68.24	68.08	67.91	67.74	67.57	67.40	67.23	67.06	66.89	66.71	71.7
71.8	68.51	68.35	68.18	68.01	67.84	67.67	67.50	67.33	67.16	66.99	66.82	71.8
71.9	68.62	68.45	68.28	68.11	67.94	67.77	67.60	67.43	67.26	67.09	66.92	71.9
72.0	68.72	68.55	68.38	68.22	68.05	67.88	67.71	67.54	67.37	67.20	67.03	72.0
72.1	68.82	68.65	68.49	68.32	68.15	67.98	67.81	67.64	67.47	67.30	67.13	72.1
72.2	68.92	68.76	68.59	68.42	68.25	68.08	67.91	67.74	67.57	67.40	67.23	72.2
72.3	69.03	68.86	68.69	68.52	68.36	68.19	68.02	67.85	67.68	67.51	67.34	72.3
72.4	69.13	68.96	68.80	68.63	68.46	68.29	68.12	67.95	67.78	67.61	67.44	72.4
72.5	69.23	69.07	68.90	68.73	68.56	68.39	68.22	68.05	67.89	67.72	67.54	72.5
72.6	69.34	69.17	69.00	68.83	68.66	68.50	68.33	68.16	67.99	67.82	67.65	72.6
72.7	69.44	69.27	69.10	68.94	68.77	68.60	68.43	68.26	68.09	67.92	67.75	72.7
72.8	69.54	69.37	69.21	69.04	68.87	68.70	68.53	68.37	68.20	68.03	67.86	72.8
72.9	69.64	69.48	69.31	69.14	68.97	68.81	68.64	68.47	68.30	68.13	67.96	72.9
73.0	69.75	69.58	69.41	69.24	69.08	68.91	68.74	68.57	68.40	68.23	68.06	73.0
73.1	69.85	69.68	69.52	69.35	69.18	69.01	68.84	68.68	68.51	68.34	68.17	73.1
73.2	69.95	69.78	69.62	69.45	69.28	69.12	68.95	68.78	68.61	68.44	68.27	73.2
73.3	70.05	69.89	69.72	69.55	69.39	69.22	69.05	68.88	68.71	68.54	68.38	73.3
73.4	70.16	69.99	69.82	69.66	69.49	69.32	69.15	68.99	68.82	68.65	68.48	73.4
73.5	70.26	70.09	69.93	69.76	69.59	69.43	69.26	69.09	68.92	68.75	68.58	73.5
73.6	70.36	70.20	70.03	69.86	69.70	69.53	69.36	69.19	69.02	68.86	68.69	73.6
73.7	70.46	70.30	70.13	69.97	69.80	69.63	69.46	69.30	69.13	68.96	68.79	73.7
73.8	70.57	70.40	70.24	70.07	69.90	69.74	69.57	69.40	69.23	69.06	68.89	73.8
73.9	70.67	70.50	70.34	70.17	70.01	69.84	69.67	69.50	69.34	69.17	69.00	73.9
74.0	70.77	70.61	70.44	70.28	70.11	69.94	69.77	69.61	69.44	69.27	69.10	74.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
74.0	70.77	70.61	70.44	70.28	70.11	69.94	69.77	69.61	69.44	69.27	69.10	74.0
74.1	70.87	70.71	70.54	70.38	70.21	70.05	69.88	69.71	69.54	69.38	69.21	74.1
74.2	70.98	70.81	70.65	70.48	70.32	70.15	69.98	69.81	69.65	69.48	69.31	74.2
74.3	71.08	70.92	70.75	70.58	70.42	70.25	70.09	69.92	69.75	69.58	69.41	74.3
74.4	71.18	71.02	70.85	70.69	70.52	70.36	70.19	70.02	69.85	69.69	69.52	74.4
74.5	71.29	71.12	70.96	70.79	70.62	70.46	70.29	70.13	69.96	69.79	69.62	74.5
74.6	71.39	71.22	71.06	70.89	70.73	70.56	70.40	70.23	70.06	69.89	69.73	74.6
74.7	71.49	71.33	71.16	71.00	70.83	70.67	70.50	70.33	70.17	70.00	69.83	74.7
74.8	71.59	71.43	71.26	71.10	70.93	70.77	70.60	70.44	70.27	70.10	69.93	74.8
74.9	71.70	71.53	71.37	71.20	71.04	70.87	70.71	70.54	70.37	70.21	70.04	74.9
75.0	71.80	71.63	71.47	71.31	71.14	70.98	70.81	70.64	70.48	70.31	70.14	75.0
75.1	71.90	71.74	71.57	71.41	71.24	71.08	70.91	70.75	70.58	70.41	70.25	75.1
75.2	72.00	71.84	71.68	71.51	71.35	71.18	71.02	70.85	70.68	70.52	70.35	75.2
75.3	72.11	71.94	71.78	71.62	71.45	71.29	71.12	70.95	70.79	70.62	70.45	75.3
75.4	72.21	72.05	71.88	71.72	71.55	71.39	71.22	71.06	70.89	70.73	70.56	75.4
75.5	72.31	72.15	71.99	71.82	71.66	71.49	71.33	71.16	71.00	70.83	70.66	75.5
75.6	72.41	72.25	72.09	71.92	71.76	71.60	71.43	71.27	71.10	70.93	70.77	75.6
75.7	72.52	72.35	72.19	72.03	71.86	71.70	71.53	71.37	71.20	71.04	70.87	75.7
75.8	72.62	72.46	72.29	72.13	71.97	71.80	71.64	71.47	71.31	71.14	70.98	75.8
75.9	72.72	72.56	72.40	72.23	72.07	71.91	71.74	71.58	71.41	71.25	71.08	75.9
76.0	72.83	72.66	72.50	72.34	72.17	72.01	71.85	71.68	71.52	71.35	71.18	76.0
76.1	72.93	72.77	72.60	72.44	72.28	72.11	71.95	71.78	71.62	71.45	71.29	76.1
76.2	73.03	72.87	72.71	72.54	72.38	72.22	72.05	71.89	71.72	71.56	71.39	76.2
76.3	73.13	72.97	72.81	72.65	72.48	72.32	72.16	71.99	71.83	71.66	71.50	76.3
76.4	73.24	73.07	72.91	72.75	72.59	72.42	72.26	72.10	71.93	71.77	71.60	76.4
76.5	73.34	73.18	73.02	72.85	72.69	72.53	72.36	72.20	72.03	71.87	71.70	76.5
76.6	73.44	73.28	73.12	72.96	72.79	72.63	72.47	72.30	72.14	71.97	71.81	76.6
76.7	73.55	73.38	73.22	73.06	72.90	72.73	72.57	72.41	72.24	72.08	71.91	76.7
76.8	73.65	73.49	73.32	73.16	73.00	72.84	72.67	72.51	72.35	72.18	72.02	76.8
76.9	73.75	73.59	73.43	73.27	73.10	72.94	72.78	72.61	72.45	72.29	72.12	76.9
77.0	73.85	73.69	73.53	73.37	73.21	73.04	72.88	72.72	72.55	72.39	72.23	77.0
77.1	73.96	73.80	73.63	73.47	73.31	73.15	72.98	72.82	72.66	72.49	72.33	77.1
77.2	74.06	73.90	73.74	73.58	73.41	73.25	73.09	72.93	72.76	72.60	72.43	77.2
77.3	74.16	74.00	73.84	73.68	73.52	73.35	73.19	73.03	72.87	72.70	72.54	77.3
77.4	74.26	74.10	73.94	73.78	73.62	73.46	73.30	73.13	72.97	72.81	72.64	77.4
77.5	74.37	74.21	74.05	73.89	73.72	73.56	73.40	73.24	73.07	72.91	72.75	77.5
77.6	74.47	74.31	74.15	73.99	73.83	73.67	73.50	73.34	73.18	73.01	72.85	77.6
77.7	74.57	74.41	74.25	74.09	73.93	73.77	73.61	73.44	73.28	73.12	72.95	77.7
77.8	74.68	74.52	74.36	74.19	74.03	73.87	73.71	73.55	73.39	73.22	73.06	77.8
77.9	74.78	74.62	74.46	74.30	74.14	73.98	73.81	73.65	73.49	73.33	73.16	77.9
78.0	74.88	74.72	74.56	74.40	74.24	74.08	73.92	73.76	73.59	73.43	73.27	78.0

表 B.1 酒精计温度与 20 °C 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 °C											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
78.0	74.88	74.72	74.56	74.40	74.24	74.08	73.92	73.76	73.59	73.43	73.27	78.0
78.1	74.98	74.82	74.66	74.50	74.34	74.18	74.02	73.86	73.70	73.53	73.37	78.1
78.2	75.09	74.93	74.77	74.61	74.45	74.29	74.13	73.96	73.80	73.64	73.48	78.2
78.3	75.19	75.03	74.87	74.71	74.55	74.39	74.23	74.07	73.91	73.74	73.58	78.3
78.4	75.29	75.13	74.97	74.81	74.65	74.49	74.33	74.17	74.01	73.85	73.68	78.4
78.5	75.40	75.24	75.08	74.92	74.76	74.60	74.44	74.27	74.11	73.95	73.79	78.5
78.6	75.50	75.34	75.18	75.02	74.86	74.70	74.54	74.38	74.22	74.06	73.89	78.6
78.7	75.60	75.44	75.28	75.12	74.96	74.80	74.64	74.48	74.32	74.16	74.00	78.7
78.8	75.70	75.55	75.39	75.23	75.07	74.91	74.75	74.59	74.43	74.26	74.10	78.8
78.9	75.81	75.65	75.49	75.33	75.17	75.01	74.85	74.69	74.53	74.37	74.21	78.9
79.0	75.91	75.75	75.59	75.43	75.27	75.12	74.95	74.79	74.63	74.47	74.31	79.0
79.1	76.01	75.85	75.70	75.54	75.38	75.22	75.06	74.90	74.74	74.58	74.41	79.1
79.2	76.12	75.96	75.80	75.64	75.48	75.32	75.16	75.00	74.84	74.68	74.52	79.2
79.3	76.22	76.06	75.90	75.74	75.59	75.43	75.27	75.11	74.95	74.78	74.62	79.3
79.4	76.32	76.16	76.01	75.85	75.69	75.53	75.37	75.21	75.05	74.89	74.73	79.4
79.5	76.42	76.27	76.11	75.95	75.79	75.63	75.47	75.31	75.15	74.99	74.83	79.5
79.6	76.53	76.37	76.21	76.05	75.90	75.74	75.58	75.42	75.26	75.10	74.94	79.6
79.7	76.63	76.47	76.32	76.16	76.00	75.84	75.68	75.52	75.36	75.20	75.04	79.7
79.8	76.73	76.58	76.42	76.26	76.10	75.94	75.79	75.63	75.47	75.31	75.15	79.8
79.9	76.84	76.68	76.52	76.36	76.21	76.05	75.89	75.73	75.57	75.41	75.25	79.9
80.0	76.94	76.78	76.63	76.47	76.31	76.15	75.99	75.83	75.67	75.51	75.35	80.0
80.1	77.04	76.89	76.73	76.57	76.41	76.26	76.10	75.94	75.78	75.62	75.46	80.1
80.2	77.15	76.99	76.83	76.67	76.52	76.36	76.20	76.04	75.88	75.72	75.56	80.2
80.3	77.25	77.09	76.94	76.78	76.62	76.46	76.30	76.15	75.99	75.83	75.67	80.3
80.4	77.35	77.19	77.04	76.88	76.72	76.57	76.41	76.25	76.09	75.93	75.77	80.4
80.5	77.45	77.30	77.14	76.98	76.83	76.67	76.51	76.35	76.20	76.04	75.88	80.5
80.6	77.56	77.40	77.24	77.09	76.93	76.77	76.62	76.46	76.30	76.14	75.98	80.6
80.7	77.66	77.50	77.35	77.19	77.03	76.88	76.72	76.56	76.40	76.25	76.09	80.7
80.8	77.76	77.61	77.45	77.30	77.14	76.98	76.82	76.67	76.51	76.35	76.19	80.8
80.9	77.87	77.71	77.55	77.40	77.24	77.09	76.93	76.77	76.61	76.45	76.30	80.9
81.0	77.97	77.81	77.66	77.50	77.35	77.19	77.03	76.87	76.72	76.56	76.40	81.0
81.1	78.07	77.92	77.76	77.61	77.45	77.29	77.14	76.98	76.82	76.66	76.50	81.1
81.2	78.18	78.02	77.86	77.71	77.55	77.40	77.24	77.08	76.93	76.77	76.61	81.2
81.3	78.28	78.12	77.97	77.81	77.66	77.50	77.34	77.19	77.03	76.87	76.71	81.3
81.4	78.38	78.23	78.07	77.92	77.76	77.60	77.45	77.29	77.13	76.98	76.82	81.4
81.5	78.48	78.33	78.18	78.02	77.86	77.71	77.55	77.40	77.24	77.08	76.92	81.5
81.6	78.59	78.43	78.28	78.12	77.97	77.81	77.66	77.50	77.34	77.19	77.03	81.6
81.7	78.69	78.54	78.38	78.23	78.07	77.92	77.76	77.60	77.45	77.29	77.13	81.7
81.8	78.79	78.64	78.49	78.33	78.18	78.02	77.86	77.71	77.55	77.39	77.24	81.8
81.9	78.90	78.74	78.59	78.43	78.28	78.12	77.97	77.81	77.66	77.50	77.34	81.9
82.0	79.00	78.85	78.69	78.54	78.38	78.23	78.07	77.92	77.76	77.60	77.45	82.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
82.0	79.00	78.85	78.69	78.54	78.38	78.23	78.07	77.92	77.76	77.60	77.45	82.0
82.1	79.10	78.95	78.80	78.64	78.49	78.33	78.18	78.02	77.86	77.71	77.55	82.1
82.2	79.21	79.05	78.90	78.75	78.59	78.44	78.28	78.12	77.97	77.81	77.66	82.2
82.3	79.31	79.16	79.00	78.85	78.69	78.54	78.38	78.23	78.07	77.92	77.76	82.3
82.4	79.41	79.26	79.11	78.95	78.80	78.64	78.49	78.33	78.18	78.02	77.86	82.4
82.5	79.52	79.36	79.21	79.06	78.90	78.75	78.59	78.44	78.28	78.13	77.97	82.5
82.6	79.62	79.47	79.31	79.16	79.01	78.85	78.70	78.54	78.39	78.23	78.07	82.6
82.7	79.72	79.57	79.42	79.26	79.11	78.96	78.80	78.65	78.49	78.34	78.18	82.7
82.8	79.83	79.67	79.52	79.37	79.21	79.06	78.91	78.75	78.60	78.44	78.28	82.8
82.9	79.93	79.78	79.62	79.47	79.32	79.16	79.01	78.86	78.70	78.54	78.39	82.9
83.0	80.03	79.88	79.73	79.57	79.42	79.27	79.11	78.96	78.80	78.65	78.49	83.0
83.1	80.14	79.98	79.83	79.68	79.53	79.37	79.22	79.06	78.91	78.75	78.60	83.1
83.2	80.24	80.09	79.94	79.78	79.63	79.48	79.32	79.17	79.01	78.86	78.70	83.2
83.3	80.34	80.19	80.04	79.89	79.73	79.58	79.43	79.27	79.12	78.96	78.81	83.3
83.4	80.45	80.29	80.14	79.99	79.84	79.68	79.53	79.38	79.22	79.07	78.91	83.4
83.5	80.55	80.40	80.25	80.09	79.94	79.79	79.64	79.48	79.33	79.17	79.02	83.5
83.6	80.65	80.50	80.35	80.20	80.05	79.89	79.74	79.59	79.43	79.28	79.12	83.6
83.7	80.76	80.61	80.45	80.30	80.15	80.00	79.84	79.69	79.54	79.38	79.23	83.7
83.8	80.86	80.71	80.56	80.41	80.25	80.10	79.95	79.80	79.64	79.49	79.33	83.8
83.9	80.96	80.81	80.66	80.51	80.36	80.21	80.05	79.90	79.75	79.59	79.44	83.9
84.0	81.07	80.92	80.76	80.61	80.46	80.31	80.16	80.00	79.85	79.70	79.54	84.0
84.1	81.17	81.02	80.87	80.72	80.57	80.41	80.26	80.11	79.96	79.80	79.65	84.1
84.2	81.27	81.12	80.97	80.82	80.67	80.52	80.37	80.21	80.06	79.91	79.75	84.2
84.3	81.38	81.23	81.08	80.93	80.77	80.62	80.47	80.32	80.17	80.01	79.86	84.3
84.4	81.48	81.33	81.18	81.03	80.88	80.73	80.58	80.42	80.27	80.12	79.96	84.4
84.5	81.58	81.43	81.28	81.13	80.98	80.83	80.68	80.53	80.38	80.22	80.07	84.5
84.6	81.69	81.54	81.39	81.24	81.09	80.94	80.78	80.63	80.48	80.33	80.17	84.6
84.7	81.79	81.64	81.49	81.34	81.19	81.04	80.89	80.74	80.59	80.43	80.28	84.7
84.8	81.90	81.75	81.60	81.45	81.30	81.15	80.99	80.84	80.69	80.54	80.39	84.8
84.9	82.00	81.85	81.70	81.55	81.40	81.25	81.10	80.95	80.80	80.64	80.49	84.9
85.0	82.10	81.95	81.80	81.65	81.50	81.35	81.20	81.05	80.90	80.75	80.60	85.0
85.1	82.21	82.06	81.91	81.76	81.61	81.46	81.31	81.16	81.01	80.85	80.70	85.1
85.2	82.31	82.16	82.01	81.86	81.71	81.56	81.41	81.26	81.11	80.96	80.81	85.2
85.3	82.41	82.27	82.12	81.97	81.82	81.67	81.52	81.37	81.22	81.06	80.91	85.3
85.4	82.52	82.37	82.22	82.07	81.92	81.77	81.62	81.47	81.32	81.17	81.02	85.4
85.5	82.62	82.47	82.33	82.18	82.03	81.88	81.73	81.58	81.43	81.28	81.12	85.5
85.6	82.73	82.58	82.43	82.28	82.13	81.98	81.83	81.68	81.53	81.38	81.23	85.6
85.7	82.83	82.68	82.53	82.39	82.24	82.09	81.94	81.79	81.64	81.49	81.33	85.7
85.8	82.93	82.79	82.64	82.49	82.34	82.19	82.04	81.89	81.74	81.59	81.44	85.8
85.9	83.04	82.89	82.74	82.59	82.45	82.30	82.15	82.00	81.85	81.70	81.55	85.9
86.0	83.14	82.99	82.85	82.70	82.55	82.40	82.25	82.10	81.95	81.80	81.65	86.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
86.0	83.14	82.99	82.85	82.70	82.55	82.40	82.25	82.10	81.95	81.80	81.65	86.0
86.1	83.25	83.10	82.95	82.80	82.66	82.51	82.36	82.21	82.06	81.91	81.76	86.1
86.2	83.35	83.20	83.06	82.91	82.76	82.61	82.46	82.31	82.16	82.01	81.86	86.2
86.3	83.45	83.31	83.16	83.01	82.86	82.72	82.57	82.42	82.27	82.12	81.97	86.3
86.4	83.56	83.41	83.26	83.12	82.97	82.82	82.67	82.52	82.38	82.23	82.08	86.4
86.5	83.66	83.52	83.37	83.22	83.07	82.93	82.78	82.63	82.48	82.33	82.18	86.5
86.6	83.77	83.62	83.47	83.33	83.18	83.03	82.88	82.74	82.59	82.44	82.29	86.6
86.7	83.87	83.72	83.58	83.43	83.28	83.14	82.99	82.84	82.69	82.54	82.39	86.7
86.8	83.97	83.83	83.68	83.54	83.39	83.24	83.09	82.95	82.80	82.65	82.50	86.8
86.9	84.08	83.93	83.79	83.64	83.49	83.35	83.20	83.05	82.90	82.75	82.61	86.9
87.0	84.18	84.04	83.89	83.75	83.60	83.45	83.31	83.16	83.01	82.86	82.71	87.0
87.1	84.29	84.14	84.00	83.85	83.70	83.56	83.41	83.26	83.12	82.97	82.82	87.1
87.2	84.39	84.25	84.10	83.96	83.81	83.66	83.52	83.37	83.22	83.07	82.92	87.2
87.3	84.50	84.35	84.21	84.06	83.91	83.77	83.62	83.47	83.33	83.18	83.03	87.3
87.4	84.60	84.46	84.31	84.17	84.02	83.87	83.73	83.58	83.43	83.29	83.14	87.4
87.5	84.71	84.56	84.42	84.27	84.13	83.98	83.83	83.69	83.54	83.39	83.24	87.5
87.6	84.81	84.67	84.52	84.38	84.23	84.09	83.94	83.79	83.65	83.50	83.35	87.6
87.7	84.91	84.77	84.63	84.48	84.34	84.19	84.04	83.90	83.75	83.60	83.46	87.7
87.8	85.02	84.88	84.73	84.59	84.44	84.30	84.15	84.00	83.86	83.71	83.56	87.8
87.9	85.12	84.98	84.84	84.69	84.55	84.40	84.26	84.11	83.96	83.82	83.67	87.9
88.0	85.23	85.09	84.94	84.80	84.65	84.51	84.36	84.22	84.07	83.92	83.78	88.0
88.1	85.33	85.19	85.05	84.90	84.76	84.61	84.47	84.32	84.18	84.03	83.88	88.1
88.2	85.44	85.30	85.15	85.01	84.86	84.72	84.57	84.43	84.28	84.14	83.99	88.2
88.3	85.54	85.40	85.26	85.11	84.97	84.83	84.68	84.54	84.39	84.24	84.10	88.3
88.4	85.65	85.51	85.36	85.22	85.08	84.93	84.79	84.64	84.50	84.35	84.20	88.4
88.5	85.75	85.61	85.47	85.32	85.18	85.04	84.89	84.75	84.60	84.46	84.31	88.5
88.6	85.86	85.72	85.57	85.43	85.29	85.14	85.00	84.85	84.71	84.56	84.42	88.6
88.7	85.96	85.82	85.68	85.54	85.39	85.25	85.11	84.96	84.82	84.67	84.53	88.7
88.8	86.07	85.93	85.78	85.64	85.50	85.36	85.21	85.07	84.92	84.78	84.63	88.8
88.9	86.17	86.03	85.89	85.75	85.60	85.46	85.32	85.17	85.03	84.88	84.74	88.9
89.0	86.28	86.14	86.00	85.85	85.71	85.57	85.42	85.28	85.14	84.99	84.85	89.0
89.1	86.38	86.24	86.10	85.96	85.82	85.67	85.53	85.39	85.24	85.10	84.95	89.1
89.2	86.49	86.35	86.21	86.07	85.92	85.78	85.64	85.49	85.35	85.21	85.06	89.2
89.3	86.59	86.45	86.31	86.17	86.03	85.89	85.74	85.60	85.46	85.31	85.17	89.3
89.4	86.70	86.56	86.42	86.28	86.14	85.99	85.85	85.71	85.57	85.42	85.28	89.4
89.5	86.80	86.66	86.52	86.38	86.24	86.10	85.96	85.82	85.67	85.53	85.38	89.5
89.6	86.91	86.77	86.63	86.49	86.35	86.21	86.07	85.92	85.78	85.64	85.49	89.6
89.7	87.02	86.88	86.74	86.60	86.46	86.31	86.17	86.03	85.89	85.74	85.60	89.7
89.8	87.12	86.98	86.84	86.70	86.56	86.42	86.28	86.14	85.99	85.85	85.71	89.8
89.9	87.23	87.09	86.95	86.81	86.67	86.53	86.39	86.24	86.10	85.96	85.82	89.9
90.0	87.33	87.19	87.05	86.92	86.78	86.63	86.49	86.35	86.21	86.07	85.92	90.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
90.0	87.33	87.19	87.05	86.92	86.78	86.63	86.49	86.35	86.21	86.07	85.92	90.0
90.1	87.44	87.30	87.16	87.02	86.88	86.74	86.60	86.46	86.32	86.18	86.03	90.1
90.2	87.54	87.41	87.27	87.13	86.99	86.85	86.71	86.57	86.43	86.28	86.14	90.2
90.3	87.65	87.51	87.37	87.23	87.10	86.96	86.82	86.67	86.53	86.39	86.25	90.3
90.4	87.76	87.62	87.48	87.34	87.20	87.06	86.92	86.78	86.64	86.50	86.36	90.4
90.5	87.86	87.72	87.59	87.45	87.31	87.17	87.03	86.89	86.75	86.61	86.47	90.5
90.6	87.97	87.83	87.69	87.56	87.42	87.28	87.14	87.00	86.86	86.72	86.57	90.6
90.7	88.07	87.94	87.80	87.66	87.52	87.38	87.25	87.11	86.97	86.82	86.68	90.7
90.8	88.18	88.04	87.91	87.77	87.63	87.49	87.35	87.21	87.07	86.93	86.79	90.8
90.9	88.29	88.15	88.01	87.88	87.74	87.60	87.46	87.32	87.18	87.04	86.90	90.9
91.0	88.39	88.26	88.12	87.98	87.85	87.71	87.57	87.43	87.29	87.15	87.01	91.0
91.1	88.50	88.36	88.23	88.09	87.95	87.82	87.68	87.54	87.40	87.26	87.12	91.1
91.2	88.61	88.47	88.33	88.20	88.06	87.92	87.78	87.65	87.51	87.37	87.23	91.2
91.3	88.71	88.58	88.44	88.30	88.17	88.03	87.89	87.75	87.62	87.48	87.34	91.3
91.4	88.82	88.68	88.55	88.41	88.28	88.14	88.00	87.86	87.72	87.59	87.45	91.4
91.5	88.93	88.79	88.66	88.52	88.38	88.25	88.11	87.97	87.83	87.69	87.56	91.5
91.6	89.03	88.90	88.76	88.63	88.49	88.35	88.22	88.08	87.94	87.80	87.66	91.6
91.7	89.14	89.00	88.87	88.73	88.60	88.46	88.33	88.19	88.05	87.91	87.77	91.7
91.8	89.25	89.11	88.98	88.84	88.71	88.57	88.43	88.30	88.16	88.02	87.88	91.8
91.9	89.35	89.22	89.08	88.95	88.82	88.68	88.54	88.41	88.27	88.13	87.99	91.9
92.0	89.46	89.33	89.19	89.06	88.92	88.79	88.65	88.52	88.38	88.24	88.10	92.0
92.1	89.57	89.43	89.30	89.17	89.03	88.90	88.76	88.63	88.49	88.35	88.21	92.1
92.2	89.67	89.54	89.41	89.27	89.14	89.01	88.87	88.73	88.60	88.46	88.32	92.2
92.3	89.78	89.65	89.52	89.38	89.25	89.11	88.98	88.84	88.71	88.57	88.43	92.3
92.4	89.89	89.76	89.62	89.49	89.36	89.22	89.09	88.95	88.82	88.68	88.54	92.4
92.5	89.99	89.86	89.73	89.60	89.47	89.33	89.20	89.06	88.93	88.79	88.65	92.5
92.6	90.10	89.97	89.84	89.71	89.57	89.44	89.31	89.17	89.04	88.90	88.76	92.6
92.7	90.21	90.08	89.95	89.81	89.68	89.55	89.42	89.28	89.15	89.01	88.88	92.7
92.8	90.32	90.19	90.05	89.92	89.79	89.66	89.53	89.39	89.26	89.12	88.99	92.8
92.9	90.42	90.29	90.16	90.03	89.90	89.77	89.63	89.50	89.37	89.23	89.10	92.9
93.0	90.53	90.40	90.27	90.14	90.01	89.88	89.74	89.61	89.48	89.34	89.21	93.0
93.1	90.64	90.51	90.38	90.25	90.12	89.99	89.85	89.72	89.59	89.45	89.32	93.1
93.2	90.75	90.62	90.49	90.36	90.23	90.10	89.96	89.83	89.70	89.56	89.43	93.2
93.3	90.85	90.73	90.60	90.47	90.34	90.21	90.07	89.94	89.81	89.67	89.54	93.3
93.4	90.96	90.83	90.71	90.58	90.45	90.31	90.18	90.05	89.92	89.79	89.65	93.4
93.5	91.07	90.94	90.81	90.68	90.55	90.42	90.29	90.16	90.03	89.90	89.76	93.5
93.6	91.18	91.05	90.92	90.79	90.66	90.53	90.40	90.27	90.14	90.01	89.88	93.6
93.7	91.29	91.16	91.03	90.90	90.77	90.64	90.51	90.38	90.25	90.12	89.99	93.7
93.8	91.39	91.27	91.14	91.01	90.88	90.75	90.62	90.49	90.36	90.23	90.10	93.8
93.9	91.50	91.38	91.25	91.12	90.99	90.86	90.73	90.60	90.47	90.34	90.21	93.9
94.0	91.61	91.48	91.36	91.23	91.13	90.97	90.85	90.72	90.59	90.45	90.32	94.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
94.0	91.61	91.48	91.36	91.23	91.13	90.97	90.85	90.72	90.59	90.45	90.32	94.0
94.1	91.72	91.59	91.47	91.34	91.21	91.08	90.96	90.83	90.70	90.57	90.43	94.1
94.2	91.83	91.70	91.58	91.45	91.32	91.20	91.07	90.94	90.81	90.68	90.55	94.2
94.3	91.94	91.81	91.69	91.56	91.43	91.31	91.18	91.05	90.92	90.79	90.66	94.3
94.4	92.04	91.92	91.79	91.67	91.54	91.42	91.29	91.16	91.03	90.90	90.77	94.4
94.5	92.15	92.03	91.90	91.78	91.65	91.53	91.40	91.27	91.14	91.01	90.88	94.5
94.6	92.26	92.14	92.01	91.89	91.76	91.64	91.51	91.38	91.26	91.13	91.00	94.6
94.7	92.37	92.25	92.12	92.00	91.87	91.75	91.62	91.50	91.37	91.24	91.11	94.7
94.8	92.48	92.36	92.23	92.11	91.98	91.86	91.73	91.61	91.48	91.35	91.22	94.8
94.9	92.59	92.47	92.34	92.22	92.10	91.97	91.84	91.72	91.59	91.46	91.34	94.9
95.0	92.70	92.58	92.45	92.33	92.21	92.08	91.96	91.83	91.70	91.58	91.45	95.0
95.1	92.81	92.68	92.56	92.44	92.32	92.19	92.07	91.94	91.82	91.69	91.56	95.1
95.2	92.92	92.79	92.67	92.55	92.43	92.30	92.18	92.05	91.93	91.80	91.68	95.2
95.3	93.02	92.90	92.78	92.66	92.54	92.42	92.29	92.17	92.04	91.92	91.79	95.3
95.4	93.13	93.01	92.89	92.77	92.65	92.53	92.40	92.28	92.16	92.03	91.90	95.4
95.5	93.24	93.12	93.00	92.88	92.76	92.64	92.52	92.39	92.27	92.14	92.02	95.5
95.6	93.35	93.23	93.11	92.99	92.87	92.75	92.63	92.50	92.38	92.26	92.13	95.6
95.7	93.46	93.34	93.22	93.10	92.98	92.86	92.74	92.62	92.49	92.37	92.25	95.7
95.8	93.57	93.45	93.33	93.22	93.10	92.97	92.85	92.73	92.61	92.48	92.36	95.8
95.9	93.68	93.56	93.45	93.33	93.21	93.09	92.97	92.84	92.72	92.60	92.47	95.9
96.0	93.79	93.67	93.56	93.44	93.32	93.20	93.08	92.96	92.83	92.71	92.59	96.0
96.1	93.90	93.78	93.67	93.55	93.43	93.31	93.19	93.07	92.95	92.83	92.70	96.1
96.2	94.01	93.89	93.78	93.66	93.54	93.42	93.30	93.18	93.06	92.94	92.82	96.2
96.3	94.12	94.01	93.89	93.77	93.65	93.54	93.42	93.30	93.18	93.06	92.93	96.3
96.4	94.23	94.12	94.00	93.88	93.77	93.65	93.53	93.41	93.29	93.17	93.05	96.4
96.5	94.34	94.23	94.11	94.00	93.88	93.76	93.64	93.52	93.40	93.28	93.16	96.5
96.6	94.45	94.34	94.22	94.11	93.99	93.87	93.76	93.64	93.52	93.40	93.28	96.6
96.7	94.56	94.45	94.33	94.22	94.10	93.99	93.87	93.75	93.63	93.51	93.39	96.7
96.8	94.67	94.56	94.45	94.33	94.22	94.10	93.98	93.87	93.75	93.63	93.51	96.8
96.9	94.78	94.67	94.56	94.44	94.33	94.21	94.10	93.98	93.86	93.74	93.63	96.9
97.0	94.89	94.78	94.67	94.56	94.44	94.33	94.21	94.09	93.98	93.86	93.74	97.0
97.1	95.00	94.89	94.78	94.67	94.55	94.44	94.33	94.21	94.09	93.98	93.86	97.1
97.2	95.11	95.00	94.89	94.78	94.67	94.55	94.44	94.32	94.21	94.09	93.97	97.2
97.3	95.23	95.12	95.00	94.89	94.78	94.67	94.55	94.44	94.32	94.21	94.09	97.3
97.4	95.34	95.23	95.12	95.01	94.89	94.78	94.67	94.55	94.44	94.32	94.21	97.4
97.5	95.45	95.34	95.23	95.12	95.01	94.90	94.78	94.67	94.55	94.44	94.32	97.5
97.6	95.56	95.45	95.34	95.23	95.12	95.01	94.90	94.78	94.67	94.56	94.44	97.6
97.7	95.67	95.56	95.45	95.34	95.23	95.12	95.01	94.90	94.79	94.67	94.56	97.7
97.8	95.78	95.67	95.57	95.46	95.35	95.24	95.13	95.01	94.90	94.79	94.68	97.8
97.9	95.89	95.79	95.68	95.57	95.46	95.35	95.24	95.13	95.02	94.91	94.79	97.9
98.0	96.01	95.90	95.79	95.68	95.58	95.47	95.36	95.25	95.14	95.02	94.91	98.0

表 B.1 酒精计温度与 20 ℃ 乙醇浓度(酒精度)换算表 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	
98.0	96.01	95.90	95.79	95.68	95.58	95.47	95.36	95.25	95.14	95.02	94.91	98.0
98.1	96.12	96.01	95.90	95.80	95.69	95.58	95.47	95.36	95.25	95.14	95.03	98.1
98.2	96.23	96.12	96.02	95.91	95.80	95.70	95.59	95.48	95.37	95.26	95.15	98.2
98.3	96.34	96.24	96.13	96.03	95.92	95.81	95.70	95.59	95.49	95.38	95.26	98.3
98.4	96.45	96.35	96.24	96.14	96.03	95.93	95.82	95.71	95.60	95.49	95.38	98.4
98.5	96.57	96.46	96.36	96.25	96.15	96.04	95.94	95.83	95.72	95.61	95.50	98.5
98.6	96.68	96.58	96.47	96.37	96.26	96.16	96.05	95.94	95.84	95.73	95.62	98.6
98.7	96.79	96.69	96.59	96.48	96.38	96.27	96.17	96.06	95.95	95.85	95.74	98.7
98.8	96.90	96.80	96.70	96.60	96.49	96.39	96.28	96.18	96.07	95.97	95.86	98.8
98.9	97.02	96.92	96.81	96.71	96.61	96.51	96.40	96.30	96.19	96.08	95.98	98.9
99.0	97.13	97.03	96.93	96.83	96.72	96.62	96.52	96.41	96.31	96.20	96.10	99.0
99.1	97.24	97.14	97.04	96.94	96.84	96.74	96.64	96.53	96.43	96.32	96.22	99.1
99.2	97.36	97.26	97.16	97.06	96.96	96.85	96.75	96.65	96.55	96.44	96.34	99.2
99.3	97.47	97.37	97.27	97.17	97.07	96.97	96.87	96.77	96.66	96.56	96.46	99.3
99.4	97.58	97.48	97.39	97.29	97.19	97.09	96.99	96.89	96.78	96.68	96.58	99.4
99.5	97.70	97.60	97.50	97.40	97.31	97.21	97.11	97.00	96.90	96.80	96.70	99.5
99.6	97.81	97.71	97.62	97.52	97.42	97.32	97.22	97.12	97.02	96.92	96.82	99.6
99.7	97.92	97.83	97.73	97.64	97.54	97.44	97.34	97.24	97.14	97.04	96.94	99.7
99.8	98.04	97.94	97.85	97.75	97.66	97.56	97.46	97.36	97.26	97.16	97.06	99.8
99.9	98.15	98.06	97.96	97.87	97.77	97.68	97.58	97.48	97.38	97.28	97.18	99.9
100.0	98.27	98.18	98.08	97.99	97.89	97.80	97.70	97.60	97.50	97.41	97.31	100.0



## 附 录 C

### U 形振荡管数字密度计的校正

#### C.1 试剂和材料

水为 GB/T 6682 规定的一级水。

##### C.1.1 试剂

C.1.1.1 乙醇( $\text{C}_2\text{H}_6\text{O}$ ):分析纯。

#### C.2 仪器和设备

C.2.1 U 形振荡管数字密度计,分析精度:±0.000 01 g/mL,控温精度±0.02 °C。

C.2.2 注射器或自动进样器。

C.2.3 大气压力计,精度:±0.5 kPa。

#### C.3 数字密度计的校正

对仪器进行校正时,先用合适的洗液彻底清洗测量池,并用干燥空气干燥 U 形管。将 U 形管测量池温度设置在 20 °C,当仪器处在(20±0.02)°C下进行空气与水校正。

当 U 形管内的干燥空气在(20±0.02)°C下达到热平衡时,记录此时空气的振动周期  $T_{\text{空}}$  值,或由仪器自动记录  $T_{\text{空}}$  值。然后,使用适当的注射器或进样装置,将水注入到 U 形管中,当温度恒定在(20±0.02)°C且读数稳定后,记录水的振动周期  $T_{\text{水}}$  值,或由仪器自动记录  $T_{\text{水}}$  值。

通过大气压计或仪器内置的气压传感器获得当前环境下的实际大气压  $P$ ,按式(C.1)计算出当前的空气密度值,或直接读取仪器显示的空气密度值。

$$\rho_{\text{空}} = 0.001\ 293 \times \frac{273.15}{t} \times \frac{P}{101.3} \quad \dots\dots\dots (\text{C.1})$$

式中:

- $\rho_{\text{空}}$  ——测试温度压力下的空气密度,单位为克每毫升(g/mL);
- 0.001 293 ——标准大气压 101.3 kPa、273.15 K 下的空气密度值,单位为克每毫升(g/mL);
- 273.15 ——单位为开尔文(K),0 °C 下的热力学温度为 273.15 K;
- $t$  ——测试温度,单位为开尔文(K),20.00 °C 下,  $t$  值为 293.15 K;
- $P$  ——大气压,单位为千帕(kPa);
- 101.3 ——标准大气压,单位为千帕(kPa)。

对于自动计算型密度计,仪器具有从仪器常数和样品测得的振荡周期计算密度的功能,则仪器常数无需手动计算,按照仪器生厂商的操作说明直接读取样品的密度值。

对于非自动计算型密度计,仅能显示振荡周期  $T$  值,校准此类仪器需利用空气和水的已知密度值(20.00 °C 纯水的密度值  $\rho_{\text{水}}=0.998\ 20\ \text{g/mL}$ )以及振动周期值  $T_{\text{空}}$ 、 $T_{\text{水}}$  值,按式(C.2)计算出仪器常数  $K$  值。

$$K = \frac{\rho_{\text{水}} - \rho_{\text{空}}}{T_{\text{水}}^2 - T_{\text{空}}^2} \quad \dots\dots\dots (\text{C.2})$$

式中:

- $K$  ——密度测试时的仪器常数;
- $\rho_{\text{水}}$  ——水密度,单位为克每毫升(g/mL);

$\rho_{\text{空}}$  ——测试温度压力下的空气密度,单位为克每毫升(g/mL);

$T_{\text{水}}$  ——U形管充满水时的振动周期,单位为秒(s);

$T_{\text{空}}$  ——U形管充满空气时的振动周期,单位为秒(s)。

仪器校准后,执行空气密度检查和纯水密度检查,若仪器显示的数值与参考密度值的偏差超过 0.000 05 g/mL,查明原因后,重新校准,若偏差在 0.000 05 g/mL 内则可进行试样溶液的测定。

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