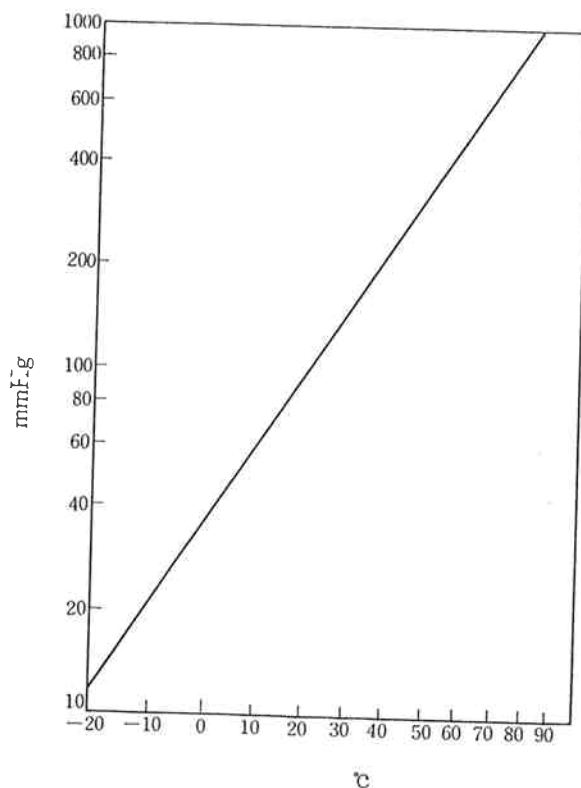


トリクロロエタン (1,1,1-Trichloroethane) の物性

一般的性質

| | | | |
|--|-----------------------------------|--------------------------|--|
| 化学式 ¹⁾ | CH ₃ CCl ₃ | | |
| 分子量 ¹⁾ | 133.41 | | |
| 融点 ¹⁾ (°C) | -32.62 | 25°C | (H ₂ O _{wt} % in 111-TCE) 0.034 |
| 沸点 ¹⁾ (°C) 760mmHg | 74.0 | 30°C | 0.042 |
| 密度 ¹⁾ (g/ml)液体 | | 蒸気圧 ¹⁾ (mmHg) | |
| 0°C | 1.37068 | 0°C | 37 |
| 15°C | 1.34587 | 10°C | 62 |
| 30°C | 1.32096 | 20°C | 100 |
| 屈折率 ²⁾ (η_{λ}^t) | | 30°C | 150 |
| η_D^{20} | 1.4383 | 40°C | 240 |
| η_{α}^{20} | 1.4357 | 50°C | 340 |
| η_{β}^{20} | 1.4443 | 60°C | 470 |
| η_r^{20} | 1.4485 | 70°C | 660 |
| 表面張力 ¹⁾ (dyn/cm) | | 74°C | 760 |
| 15°C | 26.17 | 80°C | 900 |
| 20°C | 25.56 | | |
| 30°C | 24.25 | | |
| 比熱 ¹⁾ (cal/g°C) | | | |
| -15°C~26°C | 0.2552 | | |
| 臨界温度 ²⁾ (°C) | 260 | | |
| ” 圧力 ²⁾ (atm) | 50 | | |
| 誘電率 ^{3,4)} | | | |
| 0°C | 7.1 | | |
| 20°C | 5.642 | | |
| 蒸発潜熱 ⁵⁾ (cal/g) | | | |
| 25°C | 58.65 | | |
| 沸点 | 53.27 | | |
| 粘度 ¹⁾ (cp)液体 | | | |
| 15°C | 0.903 | | |
| 30°C | 0.725 | | |
| 溶解度 ²⁾ | (1,1,1-TCEg/100gH ₂ O) | | |
| 0°C | 0.159 | | |
| 20°C | 0.132 | | |
| 35°C | 0.126 | | |
| 50°C | 0.128 | | |
| 0°C | 0.016 | | |

図-1 蒸気圧¹⁾

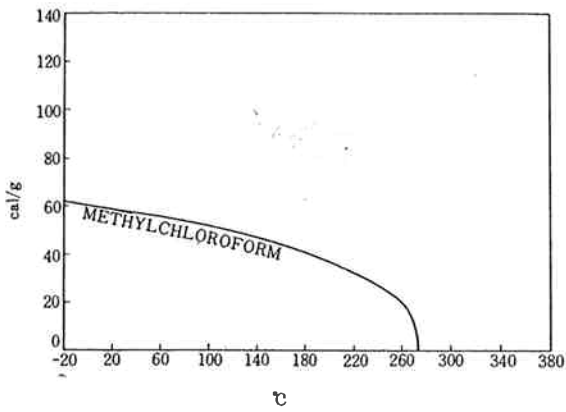


圖-2 蒸發潛熱⁶⁾

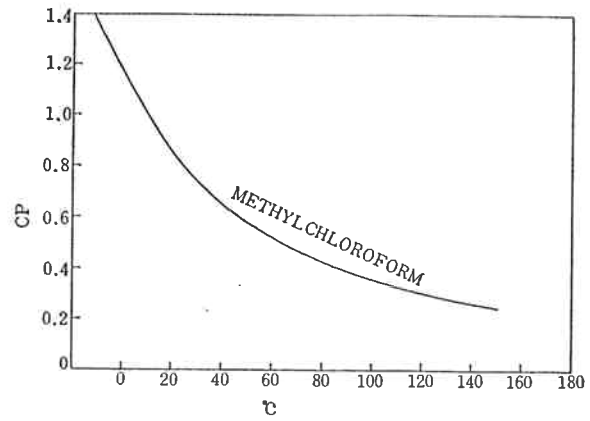


圖-6 液体粘度⁶⁾

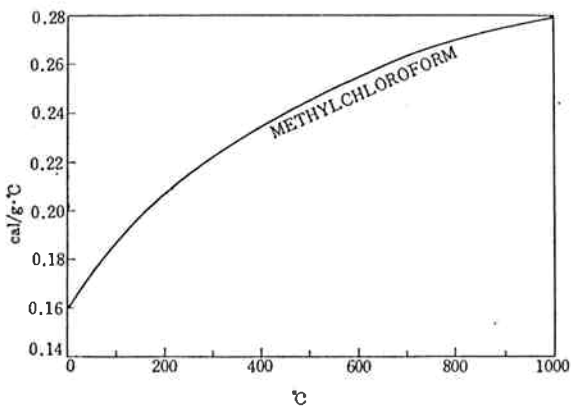


圖-3 蒸氣熱容量⁶⁾

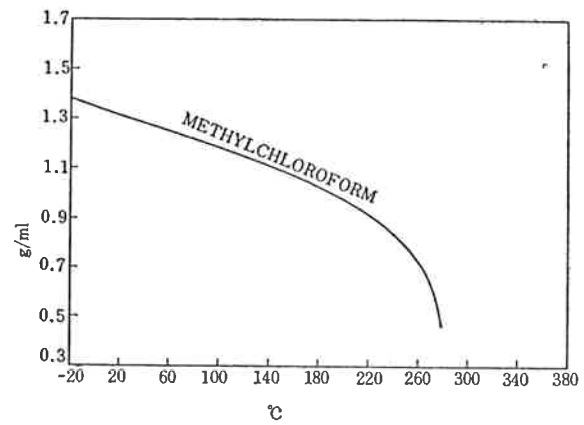


圖-7 液体密度⁶⁾

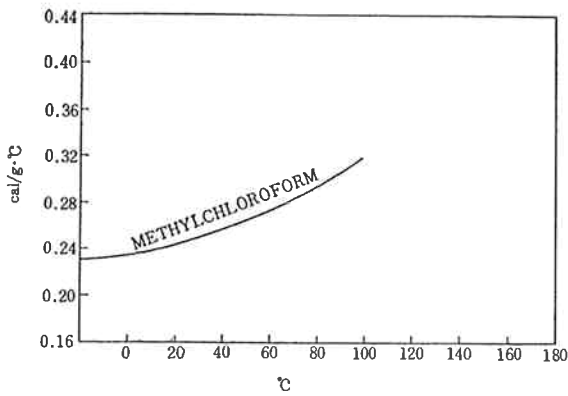


圖-4 液体熱容量⁶⁾

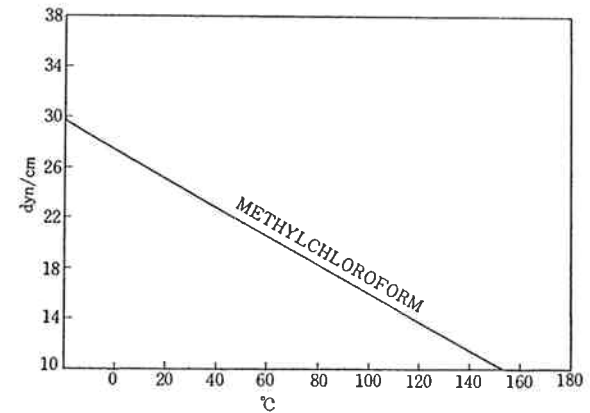


圖-8 表面張力⁶⁾

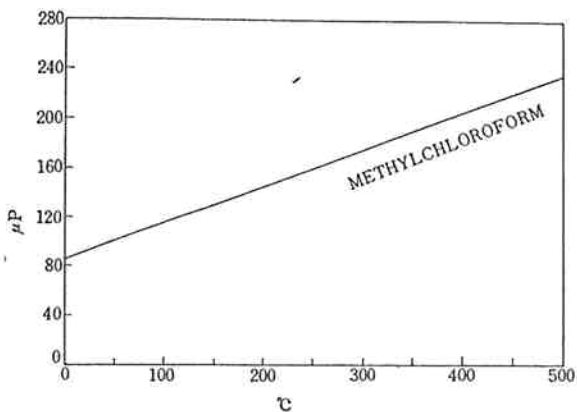


圖-5 蒸氣粘度⁶⁾

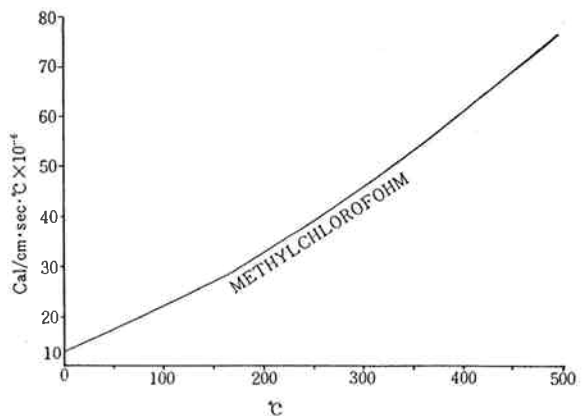


圖-9 蒸氣熱傳導度⁶⁾

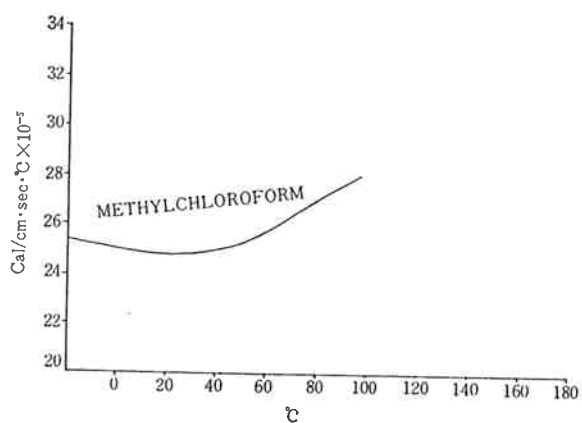


図-10 液体熱伝導度⁶⁾

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