

DMI Physical Constants Chart

Appearance	—	Colorless transparent liquid
Molecular weight	—	114.14
Boiling point	(°C)	222 (760mmHg)
Melting point	(°C)	7.5
Specific gravity	(d_4^{20})	1.06
Refractive index ⁽¹⁾	(n_D^{25})	1.471
Kinetic viscosity ⁽¹⁾	(mm ² /s)	1.95 (20°C)
		1.43 (40°C)
Surface tension	(mN/m)	41 (20°C)
Specific heat	(J/g·°C)	1.80 (adiabatic continuity method, 20°C)
Heat conductivity	(kJ/hr·m·°C)	0.62 (thermic rays method, 25°C)
Vaporization latent heat	(kJ/mol)	51.9 (=454.7 kJ/mol)
Flash point	(°C)	120 (Cleveland open method)
		95 (Pensky-Martens close method)
Dipole moment ⁽¹⁾	(D)	4.05 ~ 4.09
Dielectric constant ⁽¹⁾	(F/m)	37.60/1MHz/25°C
NMR	(ppm)	$\delta=3.27$ (N—CH ₂ s 4H)
		$\delta=2.37$ (N—CH ₃ s 6H)
IR	(cm ⁻¹)	1700 ν C=O
Toxicity	LD ₅₀ (Mouse oral)	>300~<2,000mg/kg
	LD ₅₀ (Rabbit skin)	2,000mg/kg

(1) J. Chem. Eng. Data 21, 150 ('76)