

Dimethyl Formamide (DMF)	
MOLECULAR WEIGHT	73.09
BOILING POINT (760 mm Hg), °C °F	153 307
FREEZING POINT, °C °F	-61 -78
VAPOR PRESSURE, 25 °C(77°F), mm Hg psia kPa	3.7 0.07 0.49
0.8 0.15 1.07	
DENSITY,20°C(68°F) g/mL (Mg/m <sup>3</sup> ) lb/gal	0.949 7.92
VISCOSITY, 25°C(77°F), cP (mPa.s)	0.802
SURFACE TENSION,25°C(77°F),dyn/cm(mN/m)	35.2
REFRACTIVE INDEX,n D <sup>25</sup>	1.4279
HEAT OF VAPORIZATION,150°C(302°F), cal/g Btu/lb kJ/kg	138 248 577
HEAT OF COMBUSTION (LIQUID DMF TO GASEOUS CO <sub>2</sub> and N <sub>2</sub> AND LIQUID H <sub>2</sub> O,at 25°C) cal/g Btu/lb kJ/kg	-6,349 -11,428 -26,565
SPECIFIC HEAT, LIQUID,20°C(68°F) cal/g °C(Btu/lb°F) kJ/kg.K	0.49 2.050
FLASH POINT (TOC),	67

°C °F	153
(TCC) °C °F	58 136
AUTOIGNITION TEMPERATURE, °C °F	445 833
FLAMMABILITY LIMITS IN AIR, vol% LOWER,100°C(212°F) UPPER,100°C(212°F)	2.2 15.2
CRITICAL TEMPERATURE, °C °F	370 698
CRITICAL PRESSURE, atm Mpa	43.5 4.41
DIELECTRIC CONSTANT,€10 kHz, 25 o C(77°F)	36.7
DIPOLE MOMENT, μ,20 o C(68°F),Debye units	3.82
SOLUBILITY PARAMETER, δ	12.1
HYDROGEN-BONDING INDEX, y	6.4
AZEOTROPES,BOILING POINT (760 mm Hg) 69 DMF; 31 FORMIC ACID BY WT, °C °F	162 324