

TECHNICAL DATA SHEET

PROPYLENE GLYCOL

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Chemical name	1,2-Propanediol	-	
Formula	CH ₃ -CH(OH)-CH ₂ OH; C ₃ H ₈ O ₂	-	
Molecular Weight	76.10	g/mol	
CAS Number	57-55-6	-	
EINECS Number	200-338-0	-	
Purity			
Assay	>99.5	Wt. %	-
Water			
-	<0.2	Wt. %	-
Boiling Point			
101.3 KPa (1 atm)	187°C (369°F)	-	-
Distillation Range			
101.3 KPa (1 atm)	186 - 189°C (367 - 372°F)	-	-
Vapor Pressure			
20°C (68°F)	0.011 KPa (0.08 mm Hg)	-	-
25°C (77°F)	0.017 KPa (0.13 mm Hg)	-	-
Freezing Point	Super cools	-	
Pour Point	< -57°C (-71°F)	-	
Specific Gravity			
20°C (68°F)	1.038	-	-
25°C (77°F)	1.033	-	-
60°C (140°F)	1.007	-	-
Refractive index			
20°C (68°F)	1.4310 – 1.4330	-	-
Viscosity			
20°C (68°F)	48.6 CP (mPa.s)	-	-
60°C (140°F)	8.4 CP (mPa.s)	-	-
Specific heat			
25°C (77°F)	2.52 J/g°K	-	-
Surface Tension			
25°C (77°F)	36 mN/m		
Flash Point			
Pensky-Martens Close Cup	104°C (220°F)		
Auto-ignition temperature	371°C (700°F)	°C	
Thermal conductivity			
25°C (77°F)	0.2061 W/m°K	-	
Electrical Conductivity			
25°C (77°F)	1 µS/m	-	
Heat of formation	-422 KJ/mol (-101 Kcal/g.mol)	KJ/mol	
Heat of Vaporization			
25°C (77°F)	67.0 KJ/mol		