



ELFAT - tMOPO™ (Trimethylolpropane (TMP))

Technical Datasheet

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Property	Specification
Physical Properties	
Appearance	White crystalline solid
Physical Form	White crystalline solid
Odor	Faint, characteristic
Molecular Weight	134.17 g/mol
Density / Specific Gravity	1.084 - 1.090 @ 20 °C
Viscosity	157 mPa·s (at 75°C)
Refractive Index	1.4716 (at 70°C)
pH (aqueous solution)	4-7 (25% aq.sol)
Assay / Purity	>98.5%
General	
CAS Number	77-99-6
Molecular Formula	C6H14O3
Chemical Properties	
pKa	14.01±0.10 (Predicted)
Ionic Nature	Non-ionic
Incompatibilities	Phosphorus compounds, nitric acid, hydrogen peroxide
Hazardous Reactions / Decomposition Products	Carbon monoxide (CO) and Carbon dioxide (CO2) under fire conditions.
Thermal Properties	
Melting Point	58-61 °C
Boiling Point	295 °C
Flash Point	180 °C - Cleveland open cup
Autoignition Temperature	~375 °C
Thermal Stability	Stable under normal conditions.
Solubility	



Property	Specification
Solubility in Water	3,900 g/l at 20 °C - completely soluble
Solubility in Ethanol	Soluble
Solubility in Methanol	Soluble in lower alcohols
Solubility in Acetone	Partially soluble
Solubility in Diethyl Ether	Slightly soluble
Solubility in Glycerol	Soluble
Solubility in Chloroform	Slightly soluble
Solubility in Benzene	Insoluble

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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