



2-HYDROXY PROPYL METHACRYLATE

Technical Data Sheet (TDS)

Product Name	2-HYDROXY PROPYL METHACRYLATE		
Product Alias	2-HYDROXYPROPYL 2-METHYLPROP-2-ENOATE		
Application	Mainly used in heat curing acrylic coatings, light curing acrylic coatings, photographic coatings, water-soluble electroplating coatings, adhesives, textile treatments, and modifiers for ester processing prepolymers.		
CAS No.	27813-02-1	HS CODE	29161400.90
EC No.	248-666-3		
Molecular Weight	144.17	Molecular Formula	C ₇ H ₁₂ O ₃
Monoester (W.%)	≥97%	Purity (W.%)	≥99%
Water (W.%)	≤0.1	Acid (W.%)	≤0.1
Inhibitor (MEHQ, CAS#: 150-76-5)	180-220 ppm	Color (Hazen)	≤10
Appearance	Colorless clear transparent liquid, no mechanical impurities.		
Density (g/m ³)	1.027	Vapor Density (g/m ³)	5
Octanol Water partition coefficient	0.97	Refraction index (20°C)	1.447
Boiling Point	87°C(6.66kPa)	Melting point (°C)	-17
Flash Point (°C)	104 (open) 96 (close)	Spontaneous combustion temperature (°C)	355
Vapor pressure (kPa)	0.11	Decomposition temperature (°C)	≥300
Evaporation rate (kg/S)	≤0.01	Viscosity mPa.s (20°C)	8.9
Specific heat cal/g°C	0.4	Polymerization heat kcal/mol	12.1
Solubility % (underwater)	13.4	Solubility % (water in material)	21.7
Explosive range air VOL%	2.0—	Toxicity (rodent)LD50mg/kg	11200
Solubility	Soluble in organic solvents.		
Prohibition on disposable material	Strong redox agents, acids, peroxides, heavy metal salts.		
Packing	Polyethylene plastic drums, IBC, Teflon lined iron drums, ISO TANK tanks.		

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