



2-HYDROXY ETHYL ACRYLATE

Technical Data Sheet (TDS)

Product Name	2-HYDROXY ETHYL ACRYLATE		
Product Alias	2-HYDROXYETHYL PROP-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.	818-61-1	HS CODE	29161290.90
EC No.	212-454-9		
Molecular Weight	116.12	Molecular Formula	C ₅ H ₈ O ₃
Monoester (W.%)	≥93%	Purity (W.%)	≥97%
Water (W.%)	≤0.2	Acid (W.%)	≤0.2
Inhibitor (MEHQ, CAS#: 150-76-5)	180-440ppm	Color (Hazen)	≤25
Appearance	Colorless clear transparent liquid, no mechanical impurities.		
Density (g/m ³)	1.109	Vapor Density (g/m ³)	1
Octanol Water partition coefficient	-0.21	Refraction index (20°C)	1.448
Boiling Point	82°C(6.66kPa)	Melting point (°C)	-70
Flash Point (°C)	104 (open) 99 (Close)	Spontaneous combustion temperature (°C)	≥300
Vapor pressure (kPa)	0.0523 mmHg	Decomposition temperature (°C)	≥300
Evaporation rate (kg/S)	≤0.01	Viscosity mPa.s (20°C)	5.34
Specific heat cal/g°C	0.5	Polymerization heat kcal/mol	/
Solubility % (underwater)	/	Solubility % (water in material)	/
Explosive range air VOL%	2.5—	Toxicity (rodent)LD50mg/kg	1070
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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