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	$C_5H_8O_3$
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/m³）	1.109	Vapor Density（g/m³）	1
Octanol Water partition coefficient	-0.21	Refraction index（20℃）	1.448
Boiling Point	82℃(6.66kPa)	Melting point（℃）	-70
Flash Point（℃）	104（open） 99（Close）	Spontaneous combustion temperature（℃）	≥300
Vapor pressure（kPa）	0.0523 mmHg	Decomposition temperature（℃）	≥300
Evaporation rate（kg/S）	≤0.01	Viscosity mPa.s（20℃）	5.34
Specific heat cal/g℃	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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