



Hydroxy Ethyl Methacrylate

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Catalog Nr. Q108

Definition Hydroxyethylmethacrylate or HEMA is the monomer that is used to make the polymer PolyHydroxyethylmethacrylate. The polymer is hydrophilic; therefore, when the polymer is subjected to water it will swell. Depending on the physical and chemical structure of the polymer, it is capable of absorbing from 10 to 600% water relative to the dry weight. Because of this property, it was one of the first materials to be successfully used in the manufacture of flexible contact lenses[1]

CAS Number 868-77-9

Application is used as a monomer for synthesis of polymer that is contained in preparations such as paint, adhesive, coating, dental adhesive system and others.

used in light curing polymer system and high performance coatings for lasting high gloss against cratching, solvents and weathering. It is used in paint resins and emulsions, binders for textiles and paper. It is used as a adhesion promoter for metal coatings.

Technical Data

PROPERTIES

Flash Point:	101 deg C (213.80 deg F)
Physical State:	Liquid
Appearance:	colorless to light yellow
Odor:	None reported.
pH:	Not available.
Vapor Pressure:	0.01 mm Hg @ 25 deg C
Vapor Density:	5.0 (air=1)
Evaporation Rate:	Not available.
Viscosity:	Not available.
Boiling Point:	205-208 deg C
Freezing/Melting Point:	-12 deg C
Solubility:	Miscible with water.
Specific Gravity/Density:	1.073
Molecular Formula:	C6H10O3
Molecular Weight:	130.14

Packaging & Handling 200 kgs drum = 441 lbs drum

UN Number	Class	Packaging Group
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Remarks