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Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418677

Fax: (0086) 551 65418697

Email: sales21@tnjchem.com

Site: www.tnjchem.com

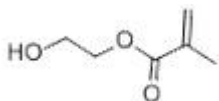
Technical Data Sheet

2-Hydroxyethyl Methacrylate

Product Information

Chemical Name 2-Hydroxyethyl Methacrylate

Chemical structure



CAS # 868-77-9

EINECS 212-782-2

Formula C6H10O3

Molecular Weight 130.14

Synonyms 1,2-Ethanediol, mono(2-methyl)-2-propenoate-;2-(Methacryloyloxy)ethanol;2-Hydroxyethyl 2-methylacrylate;2-Hydroxyethyl-2-methyl-2-propenoate;

Description

Colorless transparent liquid liquid.Soluble in ordinary organic solvents.Miscibility with water.

Physical Properties

Melting point - 12 °C

Boiling point 67 °C 3.5 mm Hg (lit.)

Density 1.069~1.075 g/mL at 25 °C(lit.)

Vapor density 5 (vs air)

Vapour pressure (25 °C) 0.01 mm Hg

Refractive index n₂₀ / D 1.4510~1.4540 (lit.)

Flash point 109 °C

Storage conditions 2-8 °C

Water solubility Soluble
Sensitivity Air Sensitive

Specification

HEMA 98%Min.

<u>Item</u>	<u>Specifications</u>
Appearance	Clear liquid
HEMA Content,%	≥ 98.0
Color (APHA)	≤ 30
Residual Acid (as MAA),%	≤ 0.3
Water Content (w/w),%	≤ 0.2
Inhibitor Content (MEHQ),ppm	200 ± 20

Applications

2-Hydroxyethyl Methacrylate HEMA is extensively applied in manufacturing the hydroxyl acrylic resin with active group and the disposition of coating industry and epoxy resin, diisocyanate and melamino-formaldehyde resin for the production of two component coatings and the function of washing additive of lubricating oil in oil production industry.

- HEMA is used for resin and coating modification;
- HEMA is add to the limousine paint,which keep bright luster in long time;
- HEMA also can be used as a synthetic fabric adhesive and medical polymer monomer;
- HEMA is used in the manufacture of paint, car paint and primer with resin;
- HEMA can also be used in light polymer , playing board, printing ink, gel (contact lenses) and tinned material coating, etc;
- HEMA in Plastics industry is used in the manufacture of active hydroxyl acrylic resin,etc.

Packaging

- 200 kg per plastic drum,total 80 drums 16 MT per 20ft container.
- IBC drum,total 20 drums,20 MT per 20ft container.
- ISO TANK.,Total 20 MT per TANK

Safety & Storage & Handling

Stored in cool and airy place; away from fire and heat; handle with care;no breakage, avoid leakage.
Avoid collision when transported, leakage should be swilled out with water.

It is valid for 6 months under proper condition.

* Please refer to MSDS for more information about Safety, Storage and Transportation.