

# 2-HYDROXYETHYL METHACRYLATE (2-HEMA)



**CAS Number:** 868-77-9

**Other Names:** 2-Hydroxyethyl Methacrylate, HEMA, Glycol methacrylate, Glycomonomethacrylate, Hydroxyethyl methacrylate, Ethylene glycol methacrylate, 2-(Methacryloyloxy)ethanol, Hydroxyethylmethacrylate,

**Formula:** C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>

## PRODUCT INTRODUCTION

Hydroxyethylmethacrylate or HEMA is the monomer that is used to make the polymer polyhydroxyethylmethacrylate. The polymer is hydrophobic; however, when the polymer is subjected to water it will swell due to the molecule's hydrophilic pendant group. 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.

## PHYSICAL AND CHEMICAL PROPERTIES

|                          |              |
|--------------------------|--------------|
| Appearance               | Clear liquid |
| Color                    | 30 max. APHA |
| Specific Gravity (20/4C) | 1.072~1.076  |
| Free Acid (as MAA)       | 1.0 %        |
| Purity                   | 97.0 min %   |
| Moisture                 | 0.3 max %    |
| Inhibitor (MEHQ)         | 180~220 ppm  |

## APPLICATIONS

- Ethyl Methacrylate (HEMA) is mainly used to fabricate thermosetting coatings, fiber-treating agent, photo sensitive resin, adhesive and medical macromolecular materials and so on.
- It is used in light curing polymer system and high performance coatings for lasting high gloss against scratching, solvents and weathering.
- It is used in paint resins and emulsions, binders for textiles and paper.

## PACKAGING OPTIONS

Drums

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