



## 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 <sub>5</sub> H <sub>8</sub> O <sub>3</sub> |
| Monoester (W.%)                        | ≥95%                                                                                                                                                                                                                     | Purity (W.%)                               | ≥98.5%                                       |
| Water (W.%)                            | ≤0.2                                                                                                                                                                                                                     | Acid (W.%)                                 | ≤0.2                                         |
| Inhibitor<br>(MEHQ, CAS#: 150-76-5)    | 200-300 ppm                                                                                                                                                                                                              | Color (Hazen)                              | ≤15                                          |
| Appearance                             | Colorless clear transparent liquid, no mechanical impurities.                                                                                                                                                            |                                            |                                              |
| Density (g/m <sup>3</sup> )            | 1.109                                                                                                                                                                                                                    | Vapor Density (g/m <sup>3</sup> )          | 1                                            |
| Octanol<br>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)<br>99 (Close)                                                                                                                                                                                                 | Spontaneous combustion<br>temperature (°C) | ≥300                                         |
| Vapor pressure (kPa)                   | 0.0523 mmHg                                                                                                                                                                                                              | Decomposition temperature<br>(°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 %<br>(underwater)           | /                                                                                                                                                                                                                        | Solubility %<br>(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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