



**Ethyl Acrylate**  
**2-Propenoic Acid, Ethyl Ester**  
**Acrylic Acid, Ethyl Ester**  
 $\text{CH}_2\text{CHCOOC}_2\text{H}_5$

**General  
Description**

Ethyl acrylate is a clear, colorless liquid with a pungent odor. It is readily miscible with most organic solvents. It is readily polymerized and displays a range of properties dependent upon the selection of the monomer and reaction conditions.

**Typical  
Properties<sup>(1)</sup>**

Molecular Weight	100.12
Relative Evaporation Rate nBuAc=1	3.3
Vapor Pressure at 20°C, mmHg	28.8
Density at 20°C lb/gal	7.70
Specific Gravity at 20/20°C	0.923
Viscosity at 20°C, cP	0.6
Surface Tension	
(dynes/cm at 20°C)	-
(dynes/cm at 25°C)	25.0
Boiling Point, °C at 760 mm Hg	100
Melting Point, °C	-72
Solubility at 20°C	
% wt in water	1.5
% wt water in	1.5
Closed Cup Flash Point, °F	48
SARA 313 <sup>(2)</sup>	Yes
Hazardous Air Pollutants <sup>(3)</sup>	Yes

**Classification/Registry Numbers**

CAS Number	140-88-5
EINECS	205-438-8

1. Typical properties; not to be construed as specifications. For details on analytical methods used in determining typical properties, contact your Dow representative.
2. Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313.
3. Hazardous Air Pollutants listed under Title III of the Clean Air Act.

**Applications**

Ethyl acrylate is used in the production of homopolymers. It is also used in the production of co-polymers, for example acrylic acid and its salts, esters, amides, methacrylates, acrylonitrile, maleates, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene and unsaturated polyesters. In addition, ethyl acrylate is used in chemical synthesis.

When used in latex paint formulations acrylic polymers have good water resistance, low temperature flexibility and excellent weathering and sunlight resistance.

## Safety and Handling Considerations

To obtain a Material Safety Data Sheet (MSDS or SDS) or a Safe Handling Guide for ethyl acrylate, please contact us at the appropriate phone number for the location listed on the last page of this Technical Data Sheet or send your request via Email using the Contact Us form on [www.dowacrylates.com](http://www.dowacrylates.com).

Request Acrylic Ester Safety and Handling Guide, Form Number 745-00007 or the European Acrylic Ester Safety and Handling Guide, Form Number 745-00009.

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### For Additional Information Call:

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