



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⁽¹⁾**

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 ⁽²⁾	Yes
Hazardous Air Pollutants ⁽³⁾	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.

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

Customer Notice

Dow encourages its customers to review their applications of Dow products from the standpoint of human health and environmental quality. To help ensure that Dow products are not used in ways for which they were not intended or tested, Dow personnel are willing to assist in dealing with ecological and product safety considerations. Your Dow representative can arrange the proper contacts.

Dow will not knowingly sell or sample any products into any commercial or developmental application which is intended for: permanent or long-term contact with internal body fluids or internal body tissues; use in cardiac prosthetic devices regardless of the length of time involved; use as a critical component in medical devices that support or sustain human life; or use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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