

Butyl Acrylate
2-Propenoic Acid, Butyl Ester
Acrylic Acid n-Butyl Ester
 $\text{CH}_2\text{CHCOOC}_4\text{H}_9$

**General
Description**

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

**Typical
Properties⁽¹⁾**

Molecular Weight	128.17
Relative Evaporation Rate nBuAc=1	0.4
Vapor Pressure at 20°C, mmHg	3.3
Density at 20°C lb/gal	7.52
Specific Gravity at 20/20°C	0.9015
Viscosity at 20°C, cP	0.9
Surface Tension	
(dynes/cm at 20°C)	-
(dynes/cm at 25°C)	25.6
Boiling Point, °C at 760 mm Hg	147
Melting Point, °C	-64
Solubility at 20°C	
% wt in water	0.2
% wt water in	0.7
Closed Cup Flash Point, °F	106
SARA 313 ⁽²⁾	Yes
Hazardous Air Pollutants ⁽³⁾	No

Classification/Registry Numbers

CAS Number	141-32-2
EINECS	205-480-7

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

Butyl acrylate is used in the production of homopolymers and co-polymers such as acrylic acid and its salts, esters, amides, methacrylates, acrylonitrile, maleates, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene and unsaturated polyesters.

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