

Forum Chemical Technical Specification Sheet

Butyl Acrylate

Chemical Identification:

CH2CHCOOC4H9

Safety

Butyl Acrylate

Acrylic Acid n-Butyl Ester

Please refer the Material Safety Data Sheet for safety, industrial hygiene and labelling of Butyl Acrylate.

2-Propenoic Acid, Butyl Ester

Storage

CAS No. : 141-32-2

EINECS No. : 205-480-7

Please refer the Material Safety Data Sheet for storage and handling of Butyl Acrylate.

Description: Butyl Acrylate is a clear colorless liquid with fruity order. It is miscible with most of the organic solvents at ambient atmospheric conditions. On polymerization, it produces wide range of homopolymers and copolymers with versatile properties depending upon the monomer(s) and reaction conditions.

Applications: Butyl Acrylate is used to produce homopolymers and copolymers for a wide range of applications like Resin binders in paints and printing inks, Pressure sensitive adhesives, sealants and coatings.

Disclaimer: The information in this publication is submitted without prejudice, and is based on our current knowledge, experience and on limited number of tests. In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a particular use. The information in this publication is not intended to be construed as a specification.

- Textile, leather and paper finishing chemicals
- Polishes and sanitizers
- Super absorbent polymers for baby nappies and adult sanitary products

Product Specifications

Properties	Unit	Min	Max	Test Method
Appearance	--	Pass		DOWM 101967
Assay	%	99.5	100.0	DOWM 102538
Acidity as Acrylic Acid	%	0.000	0.009	ASTM D1613
Color, Pt-Co	--	0	10	ASTM D5386
Water	%	0.00	0.05	ASTM E203
Inhibitor – MEHQ	ppm	10	20	ASTM D3125

Typical Properties

Properties	Unit	Values
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 at 25 °C	dyne/cm	25.6
Boiling Point at 760 mmHg	°C	147
Melting Point	°C	64
Solubility	% wt. in water % wt. water in	0.2 0.7
Closed Cup Flash Point	°F	106
SARA 313 ⁽¹⁾	--	Yes
Hazardous Air Pollutants ⁽²⁾	--	No

⁽¹⁾ Superfund Amendments and Reauthorization Act 1988 (SARA) Title III, Section 313
⁽²⁾ Hazardous Air Pollutants listed under title III of Clean Air Act

Note: The typical properties are not to be construed as specifications.