

BUTYL ACRYLATE

TU 2435-002-52470063-2003, amendments 1-4

Parameters

Mass fraction of butyl acrylate, %, min	99,5
Color, Hazen units, max	10
Mass fraction of water, % , max	0,05
Mass fraction of acrylic acid, % , max	0,005
Mass fraction of butyl propionate, %, max	0.05
Mass fraction of n-butyl alcohol, ppm, max	0,1
Mass fraction of butyl acetate, ppm, max	0,1
Mass fraction of inhibitor (p-metoxyphenol), ppm	15±5
Physical state	Colorless transparent liquid with unpleasant odor
Molecular weight	128,17
Specific weight (ρ), g/cm ³ , at 20°C	0,889
Boiling temperature, °C	147
Melting point, °C	minus 64,6
Flash point:	
-in closed crucible, °C	38
-in open crucible, °C	48
Self-ignition temperature, °C	280
Ignition temperature, °C	51
Solubility in water, mg/l, at 20°C	200
Solubility in organic solvents	Mutual solubility with butyl alcohol
Viscosity, cps, at 25°C	0.81
Specific resistance, ohm cm	3,9×10 ⁹
Evaporation heat, cal/g	71

HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Flammable liquid. Irritating to eyes, respiratory system and skin. Hazard class 3. Complete safety requirements are written in the safety data sheet.

TRANSPORTATION

In railway tank cars, tank-containers, in bulk

APPLICATION

Used as an intermediate substance in the production of homo- and co-polymers with other monomers (i.e. acrylic acid and its salts, esters, amides, etc.) to produce emulsion polymers. The three major uses of polymers of acrylate esters are surface coatings, adhesives/sealants and textiles.