

Safety data for isobutyl alcohol

[Glossary](#) of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: isobutanol, 2-methyl-1-propanol, 2-methylpropan-1-ol, fermentation butyl alcohol, 1-hydroxymethylpropane, isopropylcarbinol, 2-methylpropanol, 2-methyl propyl alcohol, iso-butanol
Molecular formula: $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$
CAS No: 78-83-1
EINECS No: 201-148-0
Annex I Index No: 603-108-00-1

Physical data

Appearance: colourless oily liquid
Melting point: -108 C
Boiling point: 108 C
Vapour density: 2.5
Vapour pressure: 9 mm Hg at 20 C
Density (g cm^{-3}): 0.8
Flash point: 28 C (closed cup)
Explosion limits: 1.6 - 10.9%
Autoignition temperature:
Water solubility: moderate

Stability

Stable. Flammable. Incompatible with strong oxidizing agents, aluminium.

Toxicology

May cause narcosis. Skin and respiratory irritant. May cause serious eye damage. Typical TLV 50 ppm. Typical STEL 75 ppm.

Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

ORL-RAT LD50 2460 mg kg⁻¹

SKN-RBT LD50 4240 mg kg⁻¹

IHL-RAT LCLO 8000 ppm/4h

IVN-MUS LD50 609 mg kg⁻¹

IVN-CAT LDLO 18 mg kg⁻¹

ORL-RBT LDLO 4240 mg kg⁻¹

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))

R10 R37 R38 R41 R67.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN No 1212. Hazard class 3. Packing group III.

Personal protection

Safety glasses, adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here.](#))

S7 S9 S13 S26 S37 S39 S46.

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SALES SPECIFICATION	
APPEARANCE	clear liquid
PURITY	99.5% min
COLOR	10 max, APHA
WATER	0.05% max
SPECIFIC GRAVITY	0.802 - 0.804
ACIDITY	0.002 max (KOH mg/kg)
PRECAUTION IN HANDLING	