Safety data for 1-propanol

Click here for data on 1-propanol in <u>student-friendly format</u>, from the HSci project

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: propan-1-ol, n-propanol, n-propyl alcohol, propanol Molecular formula: C_3H_8O CAS No: 71-23-8 EC No: 200-746-9

Physical data

Appearance: colourless liquid Melting point: -127 C Boiling point: 97 C Vapour density: Vapour pressure: 20 mm Hg at 25C Specific gravity: 0.8 Flash point: 15 C Explosion limits: 2.1% - 12% Autoignition temperature: 405 C

Stability

Stable. May form peroxides in contact with air. Incompatible with alkali metals, alkaline earths, aluminium, oxidizing agents, nitro compounds. Highly flammable. Vapour/air mixtures explosive.

Toxicology

Has been found to cause cancer in laboratory animals. Skin, eye and respiratory irritant. TLV/TWA 200 ppm.

Toxicity data

(The meaning of any abbreviations which appear in this section is given <u>here.</u>) ORL-RAT LD50 1870 mg kg⁻¹

Risk phrases

(The meaning of any risk phrases which appear in this section is given <u>here.)</u> R11 R41 R67.

Environmental information

Degrades rapidly in the environment. Low aquatic toxicity.

Transport information

(The meaning of any UN hazard codes which appear in this section is given <u>here.</u>) Packing group II. UN No 1274. Hazard class 3.2.

Personal protection

Safety glasses, and adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given <u>here.)</u> S7 S16 S24 S26 S39.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

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SALES SPECIFICATION Code: NPR Description: Normal Propyl Alcohol

Test Description	Specification Limits Min. Max.	Unit of Measure	Test Method
Normal Propyl alcohol	99.85	%(Wt/Wt)	Chromatography
Water	0.10	%(Wt/Wt)	ASTM D1364
Acidity (as Acetic acid)	0.003	%(Wt/Wt)	ASTM D 1613
Colour	5	Pt-Co	ASTM D1209
Specific Gravity 20/20°C	0.792	0.793	ASTM D891
Non Volatile Matter	0.005	g/100 ml	ASTM D1353

Comments: Physical properties are not monitored constantly. Issue of Revision Date: 21-03-2006 Spec Version Number: 1