

Safety data for butyraldehyde

[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: butal, butaldehyde, butanal, butyl aldehyde, n-butyl aldehyde, butyric aldehyde, n-butyraldehyde, butalyde

Molecular formula: C₄H₈O

CAS No: 123-72-8

EC No: 204-646-6

Annex I Index No: 605-006-00-2

Physical data

Appearance: colourless liquid with a very unpleasant smell

Melting point: -96 C

Boiling point: 75 C

Specific gravity: 0.800

Vapour pressure: 91.5 mm Hg at 20 C

Flash point: 12 F

Explosion limits: 1.4% - 12.5%

Autoignition temperature: 446 F

Stability

Stable. Incompatible with oxidizing agents, strong bases, strong reducing agents, strong acids. Highly flammable.

Toxicology

Harmful if swallowed, inhaled or absorbed through skin. Extremely destructive of mucous membranes, eyes and skin. Stench!

Possible sensitizer. Corrosive - causes burns. High exposure may

cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency. Inhalation may be fatal.

Toxicity data

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

IHL-RAT LC50 174 mg/m³/30m

SKN-RBT LD50 3560 mg kg⁻¹

Risk phrases

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

R11 R20 R21 R22 R34.

Personal protection

Safety glasses and gloves. Effective ventilation.

Safety phrases

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

S2 S9 S29 S33.

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

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Butyraldehyde:

SALES SPECIFICATION	
APPEARANCE	clear liquid
ASSAY	99.0% min
ACIDITY	0.5% max
WATER	0.5% max
COLOR	20 max (Pt/Co scale)
TRANSPORTATION	
PACKING	Only in bulk
HAZARD CLASS	3 (Packing group: II)
UN NO.	1129