Safety data for methyl disulphide



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: dimethyl disulphide, 2,3-dithiabutane,

(methyldithio)methane, DMDS, methyl disulfide, dimethyl disulfide

Molecular formula: C₂H₆S₂

CAS No: 624-92-0 EC No: 210-871-0

Physical data

Appearance: colourless to yellow liquid with a very unpleasant

smell

Melting point: -85 C Boiling point: 109 C Vapour density: 3.24

Vapour pressure: 28 mm at 25C

Specific gravity: Flash point: 24 C

Explosion limits: 1.1 - 16%

Autoignition temperature: > 300 C

Stability

Stable. Incompatible with strong bases, strong oxidizing agents, strong reducing agents. Flammable.

Toxicology

May be fatal if inhaled. Highly toxic. Skin and respiratory irritant.

Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)
R26 R36 R37 R38.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
Hazard class 3.0. Packing group II

Personal protection

Safety glasses, good ventilation, gloves.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)
S16 S26 S36 S37 S39 S45.

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

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Synonyms: Dimethyl disulfide; 2,3-Dithiabutane; Sulfa-Hitech; DMDS

CAS Registry Number: [624-92-0]

Formula: C₂H₆S₂ Molecular Weight: 94.2

Specifications of DMDS(dimethyl disulfide)

Items	index
Appearance	Colorless to yellowish liquid
Purity %	99.5 min
Methyl mercaptan %	0.1 max
Dimethyl sulfide %	0.1 max
Moisture %	0.1 max
Dimethyl Polysulfide %	0.2 max

Application:

DMDS(dimethyl disulfide) is used as an activator in hydrodesulfurization process of oil refinery, and in resulfurization process, an inhibitor in cracking coking of petrochemicals, also an intermediate for solvent and pesticides.

Packing:

200 kgs net in galvanized drum, PE drum or ISO tank.