

Solution No 3

Dimethyl Ketone

## Safety data for 3-pentanone



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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.

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### General

Synonyms: diethyl ketone, dimethyl acetone, dimethylacetone, propione, DEK, metacetone, methacetone, pentanone-3

Molecular formula:  $C_5H_{10}O$

CAS No: 96-22-0

EC No: 202-490-3

### Physical data

Appearance: colourless liquid

Melting point: -40 C

Boiling point: 102 C

Vapour density: 3

Vapour pressure: 28 mm Hg at 20 C

Specific gravity: 0.813

Flash point: 12 C

Explosion limits: 1.6 - 7.7%

Autoignition temperature: 451 C

### Stability

Stable. Highly flammable. Readily forms explosive mixtures with air. Incompatible with strong bases, reducing agents, strong oxidizing agents.

## Toxicology

Eye, skin and respiratory irritant.

### Toxicity data

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

ORL-RAT LD50 2140 mg kg<sup>-1</sup>

ORL-MUS LD50 3100 mg kg<sup>-1</sup>

IVN-MUS LD50 513 mg kg<sup>-1</sup>

SKN-RBT LD50 20 ml kg<sup>-1</sup>

### Irritation data

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

EYE-RBT 100 mg/24h/mod

SKN-RBT 500 mg/24/mld

### Risk phrases

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

R11 R36 R37 R38.

## Transport information

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

UN No 1156. Hazard class: 3.0. Packing group: II

## Personal protection

Safety glasses, adequate ventilation.

### Safety phrases

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

S9 S16 S33.

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

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