

# Safety (MSDS) data for 2-butanone



---

## General

Synonyms: methylacetone, ethyl methyl ketone, methyl ethyl ketone, MEK, butanone, MEETCO

Molecular formula: C<sub>4</sub>H<sub>8</sub>O

CAS No: 78-93-3

EINECS No: 201-159-0

## Physical data

Appearance: colourless liquid

Melting point: -87 C

Boiling point: 80 C

Vapour density: 2.49 (air = 1)

Vapour pressure: 71 mm Hg at 20 C

Density (g cm<sup>-3</sup>): 0.805

Flash point: -3 C

Explosion limits: 1.8% - 10.1%

Autoignition temperature: 515 C

Water solubility:

## Stability

Stable. Highly flammable. Incompatible with oxidizing agents, bases, strong reducing agents. Protect from moisture.

## Toxicology

Severe eye irritant. Can cause CNS depression. Skin irritant. May be harmful by ingestion, inhalation or through skin contact. May cause dermatitis.

### **Toxicity data**

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

ORL-RAT LD50 2737 mg kg<sup>-1</sup>  
IHL-RAT LC50 23500 mg/m<sup>3</sup>/8h  
IPR-RAT LD50 607 mg kg<sup>-1</sup>  
ORL-MUS LD50 4050 mg kg<sup>-1</sup>  
IHL-MAM LC50 38 g m<sup>-3</sup>  
IHL-MUS LC50 32 g/m<sup>3</sup>/4h

### **Irritation data**

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

EYE-HMN 350 ppm  
SKN-RBT 500 mg/24 mod  
SKN-RBT 402 mg/24h mld  
SKN-RBT 14 mg/24h open mld

### **Risk phrases**

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

R11 R36 R37.

## **Transport information**

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

Hazard class: 3.0. UN No 1193. 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 S25 S33.

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

---

This information was last updated on February 7, 2005. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.

---