

Safety data for acetophenone



[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: acetylbenzene, methyl phenyl ketone, phenyl methyl ketone, 1-phenylethanone, MPK, PMK
Molecular formula: C₈H₈O
CAS No: 98-86-2
EC No: 202-708-7
Annex I Index No: 606-042-00-1

Physical data

Appearance: yellow liquid
Melting point: 19 C
Boiling point: 202 C
Vapour density: 4.1
Vapour pressure: 0.45 mm Hg at 20 C
Specific gravity: 1.03
Flash point: 82 C
Explosion limits:
Autoignition temperature: 570 C

Stability

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

Toxicology

Harmful if swallowed. May be harmful by inhalation or if absorbed through skin. Skin irritant. Causes severe eye irritation. May act as a narcotic.

Toxicity data

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

ORL-RAT LD50 815 mg kg⁻¹

Risk phrases

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

R22 R36 R37 R38.

Transport information

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

Personal protection

Safety glasses. Adequate ventilation.

Safety phrases

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

S2 S26.

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SPECIFICATION

PRODUCT: ACETOPHENONE

Physical Appearance	Colourless to light yellow liquid
Purity % by mass (min.)	99.0
Solidification Point Deg.C (min.)	18.5
Phenol % by mass (max.)	0.01
Boiling Range	201 - 202.5
Density 15Deg.C/15Deg.C	1.033
Refractive Index 20 Deg.C	1.5339