

# Material Safety Data Sheet (Acetophenone)



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## SECTION 1 – PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME** Acetophenone  
**SYNONYM** Phenylmethylketone, Methyl phenyl ketone  
**FORMULA** C<sub>8</sub>H<sub>8</sub>O  
**CAS NUMBER** 98-86-2

## SECTION 2 – COMPOSITON/INFORMATION ON INGREDIENTS

PRODUCT NAME	CAS NUMBER	PURITY
Acetophenone	98-86-2	100%

## SECTION 3- HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

Combustible Liquid, Harmful by ingestion., Irritant

#### HMIS Classification

**Health Hazard:** 2  
**Flammability:** 2  
**Physical hazards:** 0

#### NFPA Rating

**Health Hazard:** 2  
**Fire:** 2  
**Reactivity Hazard:** 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** Harmful if swallowed.

## SECTION 4 – FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

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### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## SECTION 5 – FIRE FIGHTING MEASURES

### Flammable properties

Flash point 76 °C (169 °F) - closed cup

Ignition temperature 535 °C (995 °F)

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## SECTION 7- HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Storage

Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

## SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Acetophenone

98-86-2

TWA

10 ppm

49 mg/m<sup>3</sup>

1994-09-01

US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

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respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves.

### Eye protection

Safety glasses

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form clear, liquid  
Colour colourless

### Safety data

pH no data available  
Melting point 19 - 20 °C (66 - 68 °F)  
Boiling point 202 °C (396 °F)  
Flash point 76 °C (169 °F) - closed cup  
Ignition temperature 535 °C (995 °F)  
Lower explosion limit 1.4 %(V)  
Upper explosion limit 5.2 %(V)  
Vapour pressure 1 hPa (1 mmHg) at 15 °C (59 °F)  
Density 1.03 g/mL at 25 °C (77 °F)  
Water solubility no data available  
Partition coefficient: n-octanol/water  
log Pow: 1.6  
Relative vapour density 4.15 - (Air = 1.0)

## SECTION 10 – STABILITY AND REACTIVITY DATA

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents, Strong bases, Strong reducing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 815 mg/kg

LD50 Dermal - rabbit - 16,329 mg/kg

### Irritation and corrosion

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Eyes - rabbit - Severe eye irritation

### **Sensitisation**

no data available

### **Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro - Hamster - Lungs

Cytogenetic analysis

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** Harmful if swallowed.

### **Additional Information**

RTECS: AM5250000

## SECTION 12 – ECOLOGICAL INFORMATION

### **Elimination information (persistence and degradability)**

no data available

### **Ecotoxicity effects**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 162 mg/l - 96 h

### **Further information on ecology**

no data available

## SECTION 13 – DISPOSAL CONSIDERATION

### **Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### **Contaminated packaging**

Dispose of as unused product.

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## SECTION 14 - TRANSPORTATION DATA

### DOT (US)

UN-Number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid, n.o.s. (Acetophenone)

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

Not dangerous goods

### IATA

UN-Number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid n.o.s. (Acetophenone)

## SECTION 15 – REGULATORY INFORMATION

### OSHA Hazards

Combustible Liquid, Harmful by ingestion., Irritant

### DSL Status

All components of this product are on the Canadian DSL list.

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

Acetophenone CAS-No. 98-86-2 Revision Date 1991-07-01

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

### Massachusetts Right To Know Components

Acetophenone CAS-No. 98-86-2 Revision Date 1991-07-01

### Pennsylvania Right To Know Components

Acetophenone CAS-No. 98-86-2 Revision Date 1991-07-01

### New Jersey Right To Know Components

Acetophenone CAS-No. 98-86-2 Revision Date 1991-07-01

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## SECTION 16 – OTHER INFORMATION

### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.