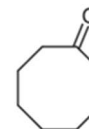




## TECHNICAL DATA SHEET

**Product name:** Cyclooctanone



### Specifications

Parameters	Specifications	Typical results
Appearance	Colorless to White Low Melting Solid	Complies
Identification By HPLC	The retention time of the principle peak obtained with the substance to be examined corresponds to that of reference standard	Complies
Melting Point	32-41°C	32°C
Assay By GC	NLT 98 %	98.2 %
Moisture by KF	NMT 0.5 %	0.2 %

### Stability and storage:

Cyclooctanone is generally stable, but it can react with strong oxidizing agents, strong bases, and reducing agents. To ensure its stability and prevent degradation, it should be stored in a cool, dry, and well-ventilated place, away from direct sunlight and heat.

Keep the container tightly closed to minimize exposure to air and moisture. Keep away from open flames, hot surfaces and sources of ignition.

Use packaging materials that are compatible with Cyclooctanone and can withstand storage conditions.

### Application Areas:

Cyclooctanone derivatives have been explored for their potential in materials science, including the development of new polymers and materials with specific properties. Cyclooctanone itself has a distinctive scent, making it valuable in the flavour and fragrance industries.

Cyclooctanone derivatives, such as Cyclooctanone oxime, can be used as precursors for the production of pesticides and herbicides. Cyclooctanone derivatives have been investigated for use in organic light-emitting diodes (OLEDs), transistors, electroluminescent devices, solar cell technology, nonlinear optical devices and chemical sensors.

### General information

CAS No. : 502-49-8  
IUPAC Name : cyclic alkane  
Synonyms : cyclooctan-1-one  
EC No : 207-940-2

### Physical/Chemical properties:

Molecular Formula : C<sub>8</sub>H<sub>14</sub>O  
Molecular weight : 126.199  
Melting point : 32 °C  
Boiling Point : 195 - 197 °C - lit  
Flash point : 74 °C  
Physical state at 20°C : Solid

### Hazard classification & labelling:

Single Word : Danger

Pictogram :



Classification according to Regulation (EC) No 1272/2008: : H314, H315, H319, H335  
Precautionary statement(s) : P260, P261, P264, P264+P265, P271, P280, P301+P330+P331, P302+P352, P302+P361+P354, P304+P340, P305+P351+P338, P305+P354+P338, P316, P319, P321, P332+P317, P337+P317, P362+P364, P363, P403+P233, P405, P501