



Chemical Name	Cyclohexanone
Chemical Category (if applicable)	Organic ketone
Synonyms	Oxocyclohexane; Ketoexamethylene; Ketocyclohexane; Cyclohexyl ketone, Pimelic ketone; and Anone
CAS Number	108-94-1
CAS Name	Cyclohexanone
EC (EINECS) Number	203-631-1

Description

- Cyclohexanone is an essential chemical used primarily in the manufacture of nylon polymer. It's also used in the production of pharmaceuticals, photographic chemicals, polyvinyl chloride and its copolymers, resins, insecticides, herbicides, corrosion inhibitors, paints and coatings, and as a thinner in lacquers.
- Cyclohexanone is a high production volume (HPV) chemical produced at over one million pounds annually and is listed by the United Nations Environmental Programme.
- Workplace exposures to cyclohexanone during its manufacture, and when used as a chemical solvent for production of other chemicals, are expected to be minimal because it is contained in enclosed systems. Workplace exposure limits have been established for use in worksite safety programs. Please see the Safety Data Sheet (SDS) for additional information.
- Cyclohexanone is a clear, colorless, flammable liquid.
- Cyclohexanone is irritating to the eyes, skin, and respiratory tract. It can be absorbed through the skin causing harmful effects. Cyclohexanone is slightly toxic in the unlikely event it's swallowed. Breathing cyclohexanone vapor may cause labored breathing, central nervous system depression, tremors and decreased heart rate; and at high concentrations it may cause kidney and liver damage and even death from respiratory depression.
- Cyclohexanone is rapidly metabolized and eliminated from the body.
- Cyclohexanone does not affect development, but it may impair the ability to successfully reproduce following repeated exposures to very high concentrations.
- The cancer risk for cyclohexanone is low.
- Cyclohexanone has low toxicity to aquatic organisms after single acute exposure.
- Cyclohexanone has minimal potential to accumulate in the bodies of humans or animals. It is readily biodegradable and will not persist in the environment.

Useful Resources

For more information about this product, [contact AdvanSix](#). Also see the following links:

- [U.S. EPA IRIS Oral RfD for Cyclohexanone](#)
- [IARC Monograph Vol. 72, 1999](#)

Contact AdvanSix

To learn more about cyclohexanone visit
[AdvanSix.com/chemicalintermediates](https://www.advansix.com/chemicalintermediates)
or call:

1-844-890-8949 (toll free, U.S./Can.)

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This product safety summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Safety Data Sheet which should be consulted before use of the chemical. The product safety summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.



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