

# CYCLOHEXANE



Cas Number: 110-82-7

**Other Names:** Hexamethylene, Hexahydrobenzene, Hexanaphthene, Cyclohexan, Benzenehexahydride, Polycyclohexane

**Formula:** C<sub>6</sub>H<sub>12</sub>

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## PRODUCT INTRODUCTION

Cyclohexane is an alicyclic hydrocarbon comprising a ring of six carbon atoms with molecular formula C<sub>6</sub>H<sub>12</sub>. Cyclohexane appears as a clear colorless liquid with a petroleum-like odor. It is insoluble in water and is volatile in nature.

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## PHYSICAL AND CHEMICAL PROPERTIES

Colour, Pt-Co scale	5
Specific Gravity 15.56/15.56°C	0.7835
Density 15°C kg/m	783.2
Distillation at 760mmHg	-
Initial Boiling Point °C	80.5
Dry Point °C	80.8
Components	-
Benzene wt%	0.00
Cyclo-Hexane wt%	99.97
High Boiling Point Hydrocarbon wt %	0.0198
Nonvolatile Matter mg/100mL	0.3
Total Sulfur wt ppm	LT 0.1
Copper Corrosion 100°C , 30min	Pass

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## APPLICATIONS

- Over 98% of the cyclohexane produced is used to make nylon intermediates: adipic acid (60%), caprolactam, and hexamethylenediamine .
- It is used as a solvent for lacquers, resins and synthetic rubber.
- Cyclohexane is also used in manufacturing of solid fuel for camp stoves and in fungicidal formulations (possesses slight fungicidal action).
- The industrial recrystallization of steroids also requires cyclohexane.

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## PACKAGING OPTIONS

Drums

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