

CYCLOHEXANONE

Physical and Chemical Properties

CAS Number:	108-94-1
Chemical Formula:	CH ₂ (CH ₂) ₄ CO
Other/Generic Names:	Cyclohexyl Ketone, PimelicKetone, Ketoexamethylene
Appearance:	Clear, colorless to pale yellow liquid
Physical State:	Liquid
Molecular Weight:	98.14
Odor:	Peppermint-like, reminiscent of acetone
Specific Gravity:	0.945 20°C (H ₂ O = 1.0)
Solubility in Water:	5% @ 30°C (Weight %)
Boiling Point:	155.6°C (312.1°F)
Melting Point:	-32.1°C (-25.8°F)
Vapor Pressure:	3.95 mm Hg @ 20°C
Vapor Density:	3.4 (Air = 1.0)
Evaporation Rate:	< 1 (compared to Butyl Acetate)
% Volatiles:	100 @ 20°C
Flash Point:	46°C (114.8°F) Closed cup
Storage:	Store in moisture tight containers in a cool, well ventilated area.

Specifications

Assay	Specification	Test Method
Cyclohexanone, %	99.8 min.	QANAD-0007
Cyclohexanol, %	0.05 max.	QANAD-0002
Water, %	0.05 max.	QANAD-0006
Acidity (as formic acid),%	0.01 max.	QANAD-0005
Color, APHA (Pt-Co) units	5 max.	QANAD-0001