

Nadone® HDR® Cyclohexanone

Description

Nadone® HDR® cyclohexanone is ideal in applications that are sensitive to oxygen or peroxide. Key benefits include: uniform evaporation, minimal moisture content, low toxicity and ecotoxicity, low volatile organic compounds (VOCs), and a good cleaning solvency. Applications range from agricultural pesticide formulations, paints and coatings to electronics, PVC adhesives and printing ink formulations.

Physical and Chemical Properties

Typical Properties	Specifications
CAS Number	108-94-1
Chemical Formula	$\text{CH}_2(\text{CH}_2)_4\text{CO}$
Other/Generic Names	Cyclohexyl ketone, pimelic ketone, ketohexamethylene
Appearance	Clear, colorless to pale yellow liquid
Physical State	Liquid
Molecular Weight	98.14
Odor	Peppermint-like, reminiscent of acetone
Specific Gravity (20°C/68°F)	0.945 20°C/68°F (H ₂ O = 1.0)
Water Solubility (miscibility), Weight % (Wt. %)	5% @ 30°C/86°F
Boiling Point	155.6°C (312.1°F)
Melting Point	-45°C (113°F)
Vapor Pressure	3.95 mm Hg @ 20°C (68°F)
Vapor Density	3.4 (Air = 1.0)
Evaporation Rate	< 1 (compared to butyl acetate)
% Volatiles	100 @ 20°C (68°F)
Flash Point	46°C (114.8°F), Closed cup
Storage	Store in moisture-tight containers in a cool, well-ventilated area.

Product Specifications

Assay	Specifications	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

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

Contact AdvanSix

To learn more about Nadone® HDR® cyclohexanone, visit

AdvanSix.com/chemicalintermediates or call:

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

+1-973-526-1800 (international)

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