

CYCLOHEXANONE

CAS NO. 108-94-1

Product Description	Key Features	Application
<ul style="list-style-type: none"> Cyclohexanone (CYC) is a clear oily liquid that has a colourless to light yellow tinge and a pungent odour. It is slightly soluble in water, completely miscible with common solvents and reacts with oxidants such as nitric acid. 	<ul style="list-style-type: none"> Colorless to light yellow tinge Miscible with common solvents 	<ul style="list-style-type: none"> Adhesives and sealants Inks and toners Biocides Plant protection products Machinery and vehicles Machine wash liquids/detergents Automotive care products Paints and coating Fragrances and air fresheners

Properties	Typical Value	Unit	Test Based On
Assay	99.8 Min	%wt	W-LTQ-146, GC
Autoignition Temperature	420 (88)	°C (°F)	
Boiling Point @ 760 mmHg			
Initial	156 (313)	°C (°F)	
Color	10 Max	APHA	W-LTQ-150, ASTM-D1209
Critical Pressure	38	ATM	
Critical Temperature	356	°C	
Empirical Formula	C ₆ H ₁₀ O		
Evaporation Rate			
(ether = 1)	40.6	-	
(n-butyl acetate = 1)	0.29	-	
Expansive Limits in Air			
Lower	1.1	vol%	
Upper	9.4	vol%	
Flash Point	44 (111)	°C (°F)	Closed cup
Freezing Point	-49 (-56)	°C (°F)	
Hansen Solubility Parameters			
Hydrogen bonding	5.1	-	
Nonpolar	17.8	-	
Polar	6.3	-	
Total	19.6	-	
Heat of Combustion	-8570	cal/g	
Heat of Vaporization	91	cal/g	
Liquid Viscosity @ 25 °C	2.2	cP (mPa.s)	
Molecular Weight	98.14	-	
Refractive Index @ 20°C	1.450	-	
Solubility			
In water, @ 20 °C	2.3	g/100ml	
Specific Gravity @ 20°C/20°C	0.95	-	
Surface Tension @ 20 °C	34	Dynes/cm	
Vapor Density (air = 1)	3.38	-	
Vapor Pressure @ 20 °C	4	mmHg	
Wt/Vol @ 20 °C	0.95	g/cm ³	

Notes

Typical properties: these are not to be construed as specifications.

¹Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

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