

DIACETONE ALCOHOL

CAS NO. 123-42-2

Product Description	Key Features	Application
<ul style="list-style-type: none"> Di Acetone Alcohol (DAA) is a clear, colourless liquid with a mild odour, that is soluble in water and miscible in oil. Di Acetone alcohol is prepared synthetically for use in the chemical and industrial industries. 	<ul style="list-style-type: none"> Colorless and limpid liquid, non-corrosive, with a characteristic pleasant smell. Miscible with the most common organic solvents and with water. Low evaporation rate High purity, mainly used in paints and coatings (coil coatings, wood varnishes, architectural coatings). Good solvent for organic peroxides. 	<ul style="list-style-type: none"> Used as a solvent for nitrocellulose Resin coating Household cleaners Inks and paints Paint removers Pesticides Coating compositions for paper and textiles; permanent markers; in making artificial silk and leather Industrial coatings (coil coatings, wood varnishes, architectural coatings)

Properties	Typical Value	Unit	Test Based On
Acidity as Acetic acid	0.01 Max	wt %	ASTM D1613
Assay	99.0 Min	wt%	GC
Autoignition Temperature	620 (1148)	°C (°F)	-
Boiling Point @ 760 mmHg	150 – 172 (302 – 342)	°C (°F)	
Color Pt-Co	25 Max	-	ASTM D1209
Critical Pressure	36	ATM	
Critical Temperature	334	°C	
Empirical Formula	C ₆ H ₁₂ O ₂		
Evaporation Rate (n-butyl acetate = 1)	0.15	-	
Expansive Limits in Air			
Lower	1.4	vol%	
Upper	8.1	vol%	
Flash Point (Closed Cup)	58 (136)	°C (°F)	
Freezing Point	-44 (-47.2)	°C (°F)	
Hansen Solubility Parameters			
Hydrogen bonding	10.8	-	
Nonpolar	15.8	-	
Polar	8.2	-	
Total	20.8	-	
Heat of Combustion	28500	kJ/kg	
Heat of Vaporization	377	kJ/kg	
Liquid Heat Capacity @ 20 °C	1.9	J/g°C	
Liquid Viscosity @ 20 °C	2.9	cP (mPa.s)	
Molecular Weight	116.2	-	
Refractive Index @ 20°C	1.421	-	
Solubility in Water	Complete	-	ASTM D1722
Specific Gravity @ 20°C/20°C	0.938 – 0.941	-	ASTM D1298
Surface Tension @ 20 °C	30	Dynes/cm	
Vapor Density (air = 1)	4	-	
Vapor Pressure @ 20 °C	1.1	hPa	
Wt/Vol @ 20 °C	0.938 (7.83)	Kg/L (lb/gal)	

Notes

Typical properties provided are not to be construed as specifications. They are compiled from available information from the supplier and equivalent public resources.

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

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