



# Acetone

## Product Data Sheet – typical properties and specifications

**Acetone** is a clear liquid organic chemical used to produce a variety of intermediates and non-reactive solvents. It is also used by the cellulose acetate fiber industry and in the manufacture of vitamins, pharmaceuticals, photographic film, printing inks, paints and varnishes. It is a chemical intermediate in the production of methacrylates, ketones, and bisphenol A.

Acetone is also referred to as 2-propanone or dimethyl ketone.

Health and safety information and safe handling suggestions are available through the appropriate Safety Data Sheet (SDS).

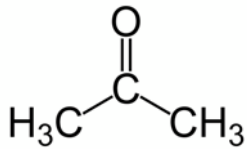
### Specifications

Characteristic	Sales Specifications	Test Method
Appearance	Clear water white liquid	Visual
Color, APHA	5 Max	D1209
Specific Gravity 25C/25C	0.7860 - 0.7890	D4052
Specific Gravity 20C/20C	0.7910 - 0.7930	D4052
Purity, Wt. %	99.5 Min	GC
Water, Wt. %	0.5 Max	D1364
Acidity as Acetic Acid, Wt. %	0.002 Max	D1613
Alkalinity, Wt.%	0.001 Max	D1614
Nonvolatile Matter, ppm	10 Max	D1353
Water Solubility	Miscible, distilled water	D1722
Reducing Substances (Permanganate Time Test)	Color retains 2hrs. Min.	D1363

**For more information on acetone or other chemicals in our product line, call us today at (713) 658-9000.**

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### Typical Physical Properties

Typical Properties	Typical Value
Structural Formula	
Empirical Formula	CH <sub>3</sub> COCH <sub>3</sub>
Molecular Weight	58.08 g/mol
Physical State	Liquid
Color	Colorless
Odor	Sweetish
Explosive Limits (by volume in air)	Lower: 2.6% Upper: 12.8%
Flash Point	Closed cup -17.8 °C (0 °F) Open cup -9 °C (15.8 °F)
Autoignition Temperature	560°C (1040°F)
Boiling Point (760 mm)	56.1°C (133 °F)
Coefficient of cubical expansion	0.0015 at 55°C, per °C
Density at 20°C, 68°F	6.63 lb/US gal
Dielectric Constant 25°C	21.45
Melting Point (freezing point)	-93.9 °C (-137 °F)
Vapor Density (Air = 1.0)	2
Vapor Pressure at 20°C, 68°F	181.7 mmHg (3.51 psi)
Viscosity at 15°C, 59°F	0.3371 cP
Water Solubility (miscibility)	Soluble in all proportions in water
Threshold Limit (toxicity)	1000 ppm

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