

ACETONE



General

ACETONE is a clear, colorless, volatile and highly flammable liquid with a sweetish odor. It is also completely soluble in water. ACETONE is used mostly for solvent applications as well as an ingredient of chemical reactions. Kumho's Acetone is produced by the oxidation of cumene.

IUPAC name : Propanone

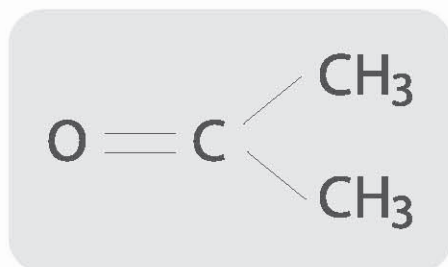
Synonyms : β-ketopropane, Dimethyl ketone, DMK
Dimethyl formaldehyde, Pyroacetic acid

Molecular formula : C₃H₆O

CAS number : 67-64-1

EINECS/ELINCS number : 200-662-7

Package : 160 kg / 200 l steel drum, bulk



Sales Specification

Appearance	Clear liquid
Purity, wt.%	99.7 Min.
Color, Pt/Co	5 Max.
Water content, wt%	0.3 Max.
Specific gravity 20/20 °C	0.790 ~ 0.793
Water miscibility	Complete
Distillation range, °C	1.0 Max. incl. 56.1 °C
Acidity as acetic acid, wt%	0.002 Max.
Permanganate time, minutes	150 Min.
Non-volatile matter, g/100ml	0.001 Max.

Uses

ACETONE is used for the production of methyl methacrylate, methyl isobutyl ketone (MIBK) and bisphenol-A, which is an ingredient of polycarbonate and epoxy resins. Quantities of ACETONE are also needed for the manufacturing methacrylic acid and higher acrylates that are used in polymers and coatings. In addition to its solvent applications, ACETONE is used in many other various applications.



Typical Properties

Molecular Weight	58.08
Appearance	Clear liquid
Odor	Mild
Boiling point, °C	56
Melting point, °C	-95
Flash point, °C	-20
Autoignition temperature, °C	465
Vapour pressure @ 20°C, mmHg	180
Vapour density (air = 1)	2
Viscosity @ 25, cP	0.303

Explosive limits by vol.%	(Lower) 2.2%
	(Upper) 13.0%
Specific gravity (H ₂ O = 1)	0.7899
Solubility in water	very good
in other solvents	almost good