ACETONE

CAS Number: 67-64-1

Other Names: Propan-2-one; Dimethyl ketone; Dimethyl carbonyl; β-Ketopropane; Propanone; 2-Propanone; Dimethyl formaldehyde; Pyroacetic spirit (archaic); Ketone propane

Formula: C_3H_6O or CH_3COCH_3

PRODUCT INTRODUCTION

Acetone (Dimethylketone) is a clear, colorless, liquid chemical with the formula CH_3COCH_3. It is a flammable, low toxic, water-miscible compound with a variety of everyday uses in industry, the laboratory, pharmaceuticals and the home.

PHYSICAL AND CHEMICAL PROPERTIES

Acetone (Dry Basis)	99.97 wt%
Water	0.20 wt%
Permanganate Time	> 120 min
Color (Pt/Co)	< 5
Acidity as Acetic Acid	7.0 wt ppm
Alkalinity as Ammonia	< 1.0 wt ppm
Iron	< 0.01wt ppm
Benzene	< 1.0 wt ppm
Specific Gravity @ 20/20°C	0.7917
Distillation Range at 760 mmHg	0.3 °C
Mesityl Oxide	< 1.0 wt ppm
Diacetone Alcohol	< 5 wt ppm
Methanol	184 wt ppm
Non-Volatile Matter	< 1.0 mg/100mL

APPLICATIONS

- Acetone is a polar, aprotic solvent used in the synthesis and isolation of both organic and inorganic compounds and complexes.

- The most common use being as a precursor to methyl methacrylate, used in the ever-growing plastics and PVC industries.
- The pharmaceutical industry uses acetone as a denaturant (to produce denatured alcohol).
- Acetone production is used by the end user market as a solvent, providing the active ingredient in many cleaning products, nail polish removers and paint/resin/adhesive thinners and various degreasers.
- Disaster cleanup for oil spills often employs acetone as a primary weapon. Acetone can dissolve oil sludge, breaking it up and making it flow away instead of stubbornly staying stuck in place.
- It is utilized for rinsing laboratory glassware due to its low cost and volatility.
- It is also useful in the synthesis of t-butanesulfinamide, terpenes, thiol-stabilized gold colloids, calixphyrin macrocycles and trispyrazolylborate platinum compounds.
- It plays an important role in protein crystallization

PACKING OPTIONS

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