ROYAL ART IMPEX
(INDIA) PRIVATE LIMITED

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ACETONE

PRODUCT INTRODUCTION

Acetone (Dimethylketone) is a clear, colorless, liquid chemical with the formula CH3COCH3. It is a flammable, low toxic, water-miscible compound with a variety of everyday uses in industry, the laboratory, pharmaceuticals and the home.

Test Items	Test Method	Limit	Test Results Ship composite
Appearance	Visual	Report	Clear&Bright
Specific gravity at 60/60°F	ASTM D4052	Report	0.9353
Bromine Number, g/100g	ASTM D1159	Report	26.8
Sulfur Content, mg/kg	ASTM D5453	Report	100
Distillation, ℃	ASTM D850		
IBP		Report	158.4
Evaporated at 90%		Report	204.3
Evaporated at 95%		Report	218.9
FBP		Report	257.1
Solvent Washed Gum, mg/100mL	ASTM D381	Report	55.0
Saybolt Color	ASTM D156	Report	-16
Flash Point, ℃	ASTM D56	Report	46.0
C4'S, mg/kg *	GC	Report	<100
C5'S, mg/kg *	GC	Report	178
Non-Aromatics(C6~C9), %(m/m) *	GC	Report	1.07
Benzene, mg/kg *	GC	Report	<100
Toluene, mg/kg *	GC	Report	515
Ethylbenzene, %(m/m) *	GC	Report	0.19
Xylene, %(m/m) *	GC	Report	0.90
Styrene, mg/kg *	GC	Report	<100
C9 Aromatics, %(m/m) *	GC	Report	31.42
C10 Aromatics, %(m/m) *	GC	Report	18.02
C10+Non Aromatics, %(m/m) *	GC	Report	36.46
Indane, %(m/m) *	GC	Report	8.38
Total Aromatics, %(m/m) *	GC	Report	62.45
Reserch Octane Number	ASTM D2699	Report	96.6
Motor Octane Number	ASTM D2700	Report	80.9
Mercaptan, wt%	ASTM D3227	Report	0.0015

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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