



SDFCL
s d fine-chem limited



Quality Control Dept.

Product Specification

E Control	QC2\DATAD\ID:IPSI20003XPS.xls
PRODUCT CODE	20003
PRODUCT NAME	ACETONE AR, ACS Meets analytical specification of IP, BP, USP, PhEur
SYNONYMS	2-Propanone, Dimethylketone
C.I. NO.	N/A
CASR NO.	67-64-1
ATOMIC OR MOLECULAR FORMULA	C ₃ H ₆ O
ATOMIC OR MOLECULAR WEIGHT	58.08
PROPERTIES	
CH₃COCH₃	
PARAMETER	LIMIT
Description	A clear and colourless liquid having characteristic odour
Solubility	Miscible with water & methanol forming a clear & colourless solution
Identification (FTIR)	Passes test
Minimum assay (By GC)	99.5%
Wt. per ml at 20°C	0.789 - 0.792 g
Refractive index(n) _D ²⁰	1.358-1.360
MAXIMUM LIMIT OF IMPURITIES	
Colour	10 HU
Water (H ₂ O)	0.2%
Acidity(CH ₃ COOH)	0.002%
Alkanity(NH ₃)	0.0005%
Non volatile matter	0.001%
Aldyhyde(HCHO)	0.002%
Aluminium(Al)	0.00001%
Barium(Ba)	0.000005%
Cadmium(Cd)	0.000005%
Calcium(Ca)	0.00005%
Chromium(Cr)	0.000002%
Cobalt(Co)	0.000002%
Copper(Cu)	0.000002%
Iron(Fe)	0.00002%
Lead(Pb)	0.000005%
Magnesium(Mg)	0.00001%
Manganese(Mn)	0.000002%

Nickel(Ni)	0.000002%
Strontium(Sr)	0.000002%
Zinc(Zn)	0.00005%
Potassium(K)	0.00001%
Sodium(Na)	0.0001%
Substance reducing permanganate (O)	0.0002%
Benzene content (C ₆ H ₆) (By GCHS)	2 ppm w/v
Propan-2-ol	0.05% v/v
Methanol	0.05% v/v
Related subs. (any other impurity)	0.05% v/v
Note(s) : Assay (if applicable) method mentioned.	

DANGER HAZARD STATEMENTS : May cause respiratory irritation. May cause drowsiness or dizziness. Highly flammable liquid and vapour. May be harmful if swallowed. May be fatal if swallowed and enters airways. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life. PRECAUTIONARY STATEMENTS : Prevention : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/attention.	
Disposal : Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal company.	
IMDG Code : 3/II UN No. : 1090 IATA : 3	

Hazard pictogram(s) :    Skin irritation Flammable liquids Aspiration hazard			
Prepared By :Asmita Thakkar	Checked By: K.B.Desai	Approved By: S.S.TOLIA	Issue Date : 01/07/2002
Name/Dept. : Sr.Officer (Q.A.)	Name/Dept. :Incharge(Q.A.)	Name/Dept. : Incharge (Tech.)	Revision No. : 04
Sign. :	Sign. :	Sign. :	Revision dt. : 08/05/2014
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