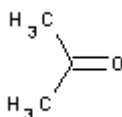


PRODUCT CODE: 361007

Acetone for UV, IR, HPLC, GPC, ACS

C_3H_6O

CH_3COCH_3



M.= 58,08

CAS [67-64-1]

EINECS 200-662-2

TARIC 2914 11 00 00

SYNONYMS: 2-Propanone, β -Ketopropane, Dimethylketone, Pyroacetic Ether

PHYSICAL DATA: liquid, Soluble in water Miscible with water and most of the solvents • D 20/4 0,791 • M.P.: -94 °C • B.P.: 56,5 °C • n_{20/D}: 1,3591 • Flash P.: -20 °C • Ign. T.: 465 °C • Vap. press. (20 °C) 233 hPa • Viscosity 25 °C 0,31 mPa.s • D. M. 20 °C 2,7 Debye • Dielec. constant 25 °C 20,7 • Evap. number (DIN 53170) 2,1 • Heat evap. 56 °C 521 KJ/Kg • Satur. conc. 20 °C 533 g/m³ • Expl. limit 2,2 %(V) 12,8 %(V) •

BIBLIOGRAPHY: Merck Index **13**, 67 14, 66 Sax **ABC750** • Safety **2**, **20 A** • Kühn-Birett **A 3** • Beilstein **1**, **635 I**, **335 II**, **692 III**, **2696 IV**, **3180** • BRN 635680 • Fieser **213 34 69** • ACS **XI** • ISO 6353/2-1983 R – 12, 16 • BP.**2025** • USP **-NF 38** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** • Directive 88/344/E.C.E.92/115/E.C.E.94/52/EC97/60/EC (27/10/1997) 2009/32/CE • Royal Decree 472/1990 (6/4/1990), 2667/1998 (11 /12/1998), 1101/2011 (22/7/2011) •

HAZARDOUS: C.E: 606-001-00-8 • RTECS: AL 3150000 • LD50 oral rat 5.800 mg/kg • VLA-ED 500 ppm1.210 mg/m³ ECTLV 500 ppm1.210 mg/m³

Derived No Effect Level (DNEL)

Workers Dermal, long exposure (local) 186mg/kg bw/24h Workers Inhalation, acute (local) 2.420 mg/m³ Workers Inhalation, long term (local) 1.210 mg/m³ Population, oral, long term (systemic) 62mg/kg bw/24h Population, Dermal, long exposure (systemic) 62mg/kg bw/24h Population Inhalation, long term (systemic) 200 mg/m³

Predicted No Effect Concentration (PNEC)

Marine water 1.06mg/l Freshwater 10.6mg/l Freshwater Sediment 30.4mg/l Marine water Sediment 3.04mg/l Soil 0.112mg/l Sewage treatment plant 29.5mg/l



H: H225 • H319 • EUH066 • H336 •

P: P210 • P233 • P241 • P303+P361+P353 • P304+P340 • P501 • P235 •

TRANSPORT REGULATIONS: UN: 1090 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,789 kg 1kg~1,267 l

OBSERVATIONS: Product controlled as a drug precursor. • Storage away from direct light. •

SPECIFICATIONS:

Minimum assay (G.C.)	99,9%
Density at 20/4	0,787-0,791
Maximum limit of impurities	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Insoluble matter in H ₂ O	passes test
Non-volatile matter	0,0003 %
Reducing substance to KMnO ₄ (as O)	0,0002 %
Aldehydes (as HCHO)	0,002%
2-Propanol (G.C.)	0,05%
Methanol (G.C.)	0,05%
Water (H ₂ O)	0,2 %
Suitability for IR spectrometry:	passes test
Fluorescence at 365 nm (as quinine)	2 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 329 (Cut off) nm	≥ 10 %
Transmittance at 330 nm	≥ 15 %
Transmittance at 335 nm	≥ 60 %
Transmittance at 340 nm	≥ 85 %
Transmittance at 345 nm	≥ 95 %
Transmittance at 350-450 nm	≥ 98 %
Data of interest in HPLC:	
Rohrschneider Polarity	5,1
Eluotropic value E° (Al ₂ O ₃)	0,56
Sol. H ₂ O in solv. at 20°C	miscible

For critical jobs, purge with nitrogen.

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.