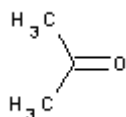


**PRODUCT CODE: 141007**

**Acetone (USP, BP, Ph. Eur.) pure, pharma grade**

$C_3H_6O$

$CH_3COCH_3$



M.= 58,08

CAS [67-64-1]

EINECS 200-662-2

TARIC 2914 11 00 00

**SYNONYMS:** 2-Propanone,  $\beta$ -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<sub>20</sub>/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. constant25 °C 20,7 • Evap. number (DIN 53170) 2,1 • Heat evap. 56 °C 521 KJ/Kg • Satur. conc. 20 °C 533 g/m<sup>3</sup> • Expl. limit2,2 %(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/m<sup>3</sup> ECTLV 500 ppm1.210 mg/m<sup>3</sup>

**Derived No Effect Level (DNEL)**

Workers Dermal, long exposure (local) 186mg/kg bw/24h Workers Inhalation, acute (local) 2.420 mg/m<sup>3</sup> Workers Inhalation, long term (local) 1.210 mg/m<sup>3</sup> 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/m<sup>3</sup>

**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. •

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**SPECIFICATIONS:**

Minimum assay (G.C.)	99,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
Density at 25/25	<= 0,789
Density at 20/20	0,790-0,793

**Maximum limit of impurities**

Appearance of solution	passes test
Acidity	passes test
Alkalinity	passes test
Insoluble matter in H <sub>2</sub> O	passes test
Non-volatile matter	0,004 %
Reducing substance to KMnO <sub>4</sub>	passes test
Residual solvents (Ph.Eur/USP)	passes test
Related substances (G.C.)	
Methanol	0,05 %
2-Propanol	0,05 %
Benzene	0,0002 %
Other impurities	0,05 %
Ethanol (G.C.)	500 ppm
Water (H <sub>2</sub> O)	0,3 %

Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm

Cu  
Sn  
Cr

250 ppm  
600 ppm  
25 ppm