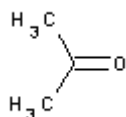


**PRODUCT CODE: 131007**

**Acetone (Reag. USP, Ph. Eur.) for analysis, ACS, ISO**

$C_3H_6O$

$CH_3COCH_3$



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.**2021** • USP **-NF 37** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **11 12** • 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	IR passes test
Density at 20/20	0,790-0,793
Range of Boiling	<=1,5°C

**Maximum limit of impurities**

APHA colour	10
Appearance of solution	passes test
Acidity	0,0003 meq/g
Alkalinity	0,0005 meq/g
Insoluble matter in H <sub>2</sub> O	passes test
Non-volatile matter	0,001 %
Reducing substance to KMnO <sub>4</sub> (as O)	0,0002 %
Aldehydes (as HCHO)	0,002%
Related substances (G.C.)	
Methanol	0,05%
2-Propanol	0,05%
Benzene	0,0002%
Other impurities	0,05%
Ethanol (G.C.)	0,01%
1-Propanol (G.C.)	0,05%
4-Hydroxy-4-Methyl-2-Pentanone (G.C.)	0,05%
Mesityl oxide (G.C.)	0,05%
Water (H <sub>2</sub> O)	0,2 %

**Metals by ICP [in mg/Kg (ppm)]**

Ag	0,05
Al	0,5
As	0,05
Au	0,05
B	0,02
Ba	0,1
Be	0,02
Bi	0,05
Ca	0,5
Cd	0,05
Co	0,02
Cr	0,02
Cu	0,02
Fe	0,1
Ga	0,02
Ge	0,05
Hg	0,05
In	0,05
K	0,1
Li	0,05
Mg	0,1
Mn	0,02
Mo	0,02
Na	0,2
Ni	0,02
P	0,2

Pb	0,1
Pt	0,02
S	0,2
Sb	0,02
Si	0,2
Sn	0,1
Sr	0,2
Ti	0,02
Tl	0,02
V	0,02
Zn	0,1
Zr	0,02