

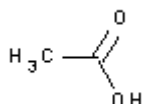


PRODUCT CODE: 131008

Acetic Acid glacial (Reag. USP, Ph. Eur.) for analysis, ACS, ISO, BioChemica

$C_2H_4O_2$

CH_3COOH



M.= 60,05

CAS [64-19-7]

EINECS 200-580-7

TARIC 2915 21 00 10

PHYSICAL DATA: liquid, Miscible with water • Hygroscopic • D 20/4 1,05 • M.P.: 16,7 °C • B.P.: 117 - 119 °C • pH(50 g/l)20 °C2,5 • n₂₀/D : 1,3718 • Flash P.:40 °C • Ign. T.:485 °C • Vap. press. (20 °C) 15,4 hPa • Viscosity 25 °C 1,14 mPa.s • D. M. 20 °C 1,5 Debye • Dielec. constant20 °C 6,1 • Evap. number (DIN 53170) 24 • Heat evap. 118 °C 665 KJ/Kg • Satur. conc. 20 °C 38 g/m³ • Expl. limit6 %(V)17 %(V) •

BIBLIOGRAPHY: Merck Index **13**, 56 14, 55 Sax **AAT250** • Safety **2** , **13 A** • Römp **8** , **1185** • Kühn-Birett **E 6** • Beilstein **2** , **96 IV** , **94** • BRN 506007 • Fieser **25 53 71 81** • ACS **XI** • ISO 6353/2- 1983 R - 1, 2 • BP.**2025** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** • BOE **243**(8-10-2009) • JP 18 •

HAZARDOUS: C.E: 607-002-00-6 • RTECS: AF 1225000 • LD50 oral rat 3.310 mg/kg • LC50 rat 40 mg/l / 4h • VLA-EC 15 ppm37 mg/m³ VLA-ED 10 ppm25 mg/m³ EU ELV, Time weighted average: 10 ppm25 mg/m³

Derived No Effect Level (DNEL)

Workers Inhalation, acute (local) 25 mg/m³ Workers Inhalation, long term (local) 25 mg/m³ Population Inhalation, acute (local) 25 mg/m³ Population Inhalation, long term (local) 25 mg/m³

Predicted No Effect Concentration (PNEC)

Water 3.058mg/l Soil 0.478mg/kg bw/24h Sediment 11.36mg/kg bw/24h Sewage treatment plant 85mg/l



H: H226 • H314 •

P: P210 • P233 • P240 • P241 • P242 • P501 • P243 • P260 • P264 • P280 • P301+P330+P331 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P338 • P363 • P370+P378 • P403+P235 •

TRANSPORT REGULATIONS: UN: 2789 • ADR: 8(3)/II • IMDG: 8(3)/II • IATA: 8(3)/II • PAX: 851 • CAO: 855 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l-1,052 kg 1kg-0,951 l

SPECIFICATIONS:

Minimum assay (G.C.)	99,7%
Density at 20/20	1,050-1,052
Freezing point	>= 16,0°C

Maximum limit of impurities

APHA colour	10
Alkalinity	0,0004 meq/g
Insoluble matter in H ₂ O	passes test
Non-volatile matter	0,001 %
Reducing substance to KMnO ₄	passes test
Residue on ignition (as SO ₄)	0,0005 %
Chloride (Cl)	0,00004%
Phosphate (PO ₄)	0,00004 %
Sulfate (SO ₄)	0,0001%
Reducing substances to K ₂ Cr ₂ O ₇	passes test
Nitrate (NO ₃)	0,0001%
Acetaldehyde (CH ₃ CHO)	0,0002%
Acetic anhydride [(CH ₃ CO) ₂ O] (G.C.)	0,01%
Formate (HCOO)	0,01%
Water (H ₂ O)	0,2 %
Heavy metals (as Pb)	0,00005%

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

Ag	0,01
Al	0,05
As	0,5
Au	0,1
B	0,05
Ba	0,1
Be	0,01
Bi	0,05
Ca	0,5
Cd	0,01
Co	0,01
Cr	0,02
Cu	0,01
Fe	0,1
Ga	0,05
Ge	0,02
Hg	0,1
In	0,05
K	0,1
Li	0,01
Mg	0,1
Mn	0,01
Mo	0,02
Na	0,5
Ni	0,05
Pb	0,5
Pt	0,1
Sb	0,02
Si	0,1
Sn	0,05
Sr	0,05
Ti	0,05

Tl	0,02
V	0,02
Zn	0,05
Zr	0,05