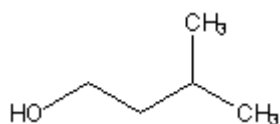


**PRODUCT CODE: 131079****Isoamyl Alcohol (Reag. Ph. Eur.) for analysis, ACS**

$C_5H_{12}O$
 $C_5H_{11}OH$



M.= 88,15

CAS [123-51-3]

EINECS 204-633-5

TARIC 2905 19 00 98

FEMA 2057

SYNONYMS: iso-Amyl Alcohol, Isobutylcarbinol, iso-Butylcarbinol, Isopentyl Alcohol, iso-Pentyl Alcohol, 3-Methyl-1-Butanol

PHYSICAL DATA: liquid, Clear, Colourless, Soluble in water 25 g/l at 20 °C D 20/4 0,809 • M.P.: -117,2 °C • B.P.: 131 °C • n_{20/D} : 1,4053 • Flash P.:42 °C • Ign. T.:340 °C • Vap. press. (20 °C) 3 hPa • D. M. 20 °C 1,7 Debye • Dielec. constant 20 °C 14,7 • Heat evap. 131 °C 441 KJ/Kg • Satur. conc. 20 °C 11 g/m³ • Expl. limit 1,2 %(V) 8 %(V) •

BIBLIOGRAPHY: Merck Index **12**, 5.212 13, 5.214 Sax **IHP000** • Safety **2** , **2712 D** • Kühn-Birett **A 67** • Ullmann **(5.)1** , 280 • Beilstein **1** , **392 I** , **196 II** , **426 III** , **1633 IV** , **1677** • BRN 1718835 • ACS **XI** • F.C.C **IV510** •

HAZARDOUS: C.E: 603-006-00-7 • RTECS: EL 5425000 • LD50 oral rat 1.300 mg/kg • TC L0 man 150ppm • LD50 skn rbt 3.212 mg/kg • VLA-EC 125 ppm 458 mg/m³ VLA-ED 100 ppm 366 mg/m³ PNEC Freshwater 0,255 ppm PNEC Marine water 0,0255 ppm PNEC Sporadic release 2,55 ppm PNEC Freshwater Sediment 1,05 ppm PNEC Marine water Sediment 0,105 ppm PNEC Soil 0,061 ppm PNEC Purifying plant 37 ppm DNEL Workers Inhalation, acute (local) 292 mg/m³ DNEL Population Inhalation, long term (local) 15,4 mg/m³ DNEL Population Inhalation, long term (systemic) 15,4 mg/m³ Population Inhalation, short term (acute) 256,4 mg/m³ Population, oral, long term (systemic) 25 ppm



H: H226 • H332 • H335 • H315 • H319 •

P: P210 • P233 • P240 • P241 • P242 • P501 • P243 • P261 • P271 • P280 • P303+P361+P353 • P304+P340 • P312 • P370+P378 • P403+P233 • P403+P235 • P405 • P264 • P305+P351+P338 • P337+P313 • P302+P352 • P332+P313 • P362 •

TRANSPORT REGULATIONS: UN: 1105 • ADR: 3/III • IMDG: 3/III • IATA: 3/III • PAX: 355 • CAO: 366 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,810 kg 1kg~1,235 l

SPECIFICATIONS:

| | |
|--|----------------|
| Minimum assay (as C ₅ H ₁₂ O) (G.C.) | 99 % |
| Identity : | |
| Identity | IR passes test |
| Density at 20/4 | 0,809-0,812 |

Maximum limit of impurities

| | |
|---------|-------------|
| Acidity | 0,002 meq/g |
|---------|-------------|

| | |
|--------------------------------------|---------|
| Non-volatile matter | 0,003 % |
| Carbonyl compounds (as HCHO) | 0,05 % |
| Acids and esters (as Pentyl acetate) | 0,2% |
| 1-Pentanol (G.C.) | 0,5% |
| Water (H ₂ O) | 0,15 % |

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 | 0,5 |
| Ni | 0,02 |
| P | 0,2 |
| Pb | 0,01 |
| 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 |

Ed.: 5 . Vig.: 03.07.2015 .

Prod.: 131079