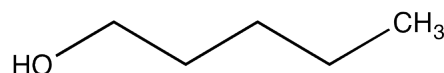


Identification

C₅H₁₂O
M = 88,15 g/mol
CAS [71-41-0]
EC number: 200-752-1
Taric code: 2905 19 00



Synonyms

1-Pentanol, 1-Pentyl alcohol, n-Butyl carbinol

Applications

analytical chemistry, laboratory reagent, synthesis of organic products, solvents.

Specifications

assay (G.C.).....	min. 99 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/4°).....	0,814 - 0,816	lead (Pb).....	max. 0,1 ppm
free acid (as CH ₃ COOH).....	max. 0,005 %	magnesium (Mg).....	max. 0,1 ppm
aluminium (Al).....	max. 0,5 ppm	manganese (Mn).....	max. 0,02 ppm
barium (Ba).....	max. 0,1 ppm	nickel (Ni).....	max. 0,02 ppm
boron (B).....	max. 0,02 ppm	tin (Sn).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,05 ppm	zinc (Zn).....	max. 0,1 ppm
calcium (Ca).....	max. 0,5 ppm	valeric aldehyde (G.C.).....	max. 0,05 %
chromium (Cr).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	passes test
cobalt (Co).....	max. 0,02 ppm	residue on evaporation.....	max. 0,002 %
		water (K.F.).....	max. 0,1 %

Physical data

- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 27 g/l
- Melting point: -79 °C
- Boiling point: 138 °C
- Flash point: 33 °C
- Ignition temperature: 300 °C
- Vapour pressure: (20 °C) 3 hPa
- Refraction index: (n 20 °C/D) 1, 4100
- Viscosity: (20 °C) 3,68 mPas
- Dielectric const.: (25 °C) 13,9
- Evap. heat: (138 °C) 427 KJ/kg
- Saturation conc.: (20 °C) 11 g/m³
- Expl. limit (upper): 10,5 Vol %
- Expl. limit (lower): 1,3 Vol %
- pH(25 g/l H₂O, 20 °C) 7

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H318: Causes serious eye damage.
H226: Flammable liquid and vapour.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H335: May cause respiratory irritation.



Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor / physician.
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 3 F1 III • UN 1105 • PENTANOLS
- IMDG: 3 III • UN 1105 • PENTANOLS
- IATA/ICAO: 3 III • UN 1105 • PENTANOLS
- PAX: 309
- CAO: 310
- 10°C - 30°C