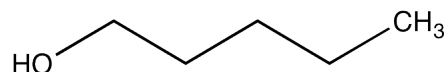


Identification

$C_5H_{12}O$
 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 %	iron (Fe).....	max. 0,00001 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,00001 %
density (20°/4°).....	0,814 - 0,816	magnesium (Mg).....	max. 0,00001 %
free acid (as CH ₃ COOH).....	max. 0,005 %	manganese (Mn).....	max. 0,000002 %
aluminium (Al).....	max. 0,00005 %	nickel (Ni).....	max. 0,000002 %
barium (Ba).....	max. 0,00001 %	tin (Sn).....	max. 0,00001 %
boron (B).....	max. 0,000002 %	zinc (Zn).....	max. 0,00001 %
cadmium (Cd).....	max. 0,000005 %	valeric aldehyde (G.C.).....	max. 0,05 %
calcium (Ca).....	max. 0,00005 %	substances darkened by H ₂ SO ₄	passes test
chromium (Cr).....	max. 0,000002 %	residue on evaporation.....	max. 0,002 %
cobalt (Co).....	max. 0,000002 %	water (K.F.).....	max. 0,1 %
copper (Cu).....	max. 0,000002 %		

Packaging
Packaging Code

1 l  AL01281000
 2,5 l  AL01282500

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: Warning

Hazard Statements:

- 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.
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P321: Specific treatment (see on this label).
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 3670 mg/kg
- WGK: 1
- Poison class CH (Swiss): 4

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
- Store between 15°C and 25°C