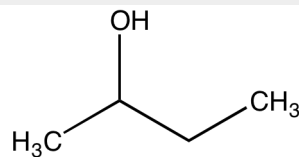


Identification

C₄H₁₀O
M = 74,12 g/mol
CAS [78-92-2]
EC number: 201-158-5
Taric code: 2905 14 90


Synonyms

sec-Butyl alcohol, Butyl alcohol secondary, Ethyl methyl carbinol

Applications

analytical chemistry, synthesis of organic products and perfumery.

Specifications

assay (G.C.).....	min. 99,5 %	iron (Fe).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,1 ppm
density (20°/4°).....	0,805 - 0,809	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,02 ppm
acidity.....	max. 0,0005 meq/g	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
alkalinity.....	max. 0,0002 meq/g	zinc (Zn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	tert-butanol (G.C.).....	max. 0,1 %
boron (B).....	max. 0,02 ppm	dibutyl ether (G.C.).....	max. 0,2 %
cadmium (Cd).....	max. 0,05 ppm	methylethylketone (G.C.).....	max. 0,1 %
calcium (Ca).....	max. 0,5 ppm	2-propanol (G.C.).....	max. 0,2 %
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. 0,001 %
copper (Cu).....	max. 0,02 ppm	water (K.F.).....	max. 0,2 %

Physical data

- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 240 - 250 g/l
- Melting point: -89 °C
- Boiling point: 98,5 - 100,5 °C
- Flash point: 24 °C
- Ignition temperature: 390 °C
- Vapour pressure: (20 °C) 16,5 hPa
- Viscosity: (20 °C) 4,21 mPas
- Dielectric const.: (20 °C) 15,8
- Saturation conc.: (20 °C) 52 g/m³
- Expl. limit (upper): 9,8 Vol%
- Expl. limit (lower): 1,4 Vol%
- pHneutro

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.


Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust / fume / gas / mist / vapours / spray.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice / attention.

Toxicological data

- LD 50 (oral, rat): 6480 mg/kg
- MAK: 100 ml/m³, 310 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 III • UN 1120 • BUTANOLS
- IMDG: 3 III • UN 1120 • BUTANOLS
- IATA/ICAO: 3 III • UN 1120 • BUTANOLS
- PAX: 353
- CAO: 364