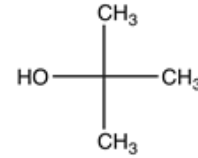


tert-Butanol, for analysis, ExpertQ®, ACS

Identification

(CH₃)₃COH
M = 74,12 g/mol
CAS [75-65-0]
EC number: 200-889-7
Taric code: 2905 14 10

**Synonyms**

2-Methyl-2-propanol, Trimethylcarbinol, tert-Butyl alcohol

Applications

solvents, perfumery, as gasoline additive.

Specifications

assay (G.C.).....	min. 99,5 %	cobalt (Co).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,02 ppm
appearance.....	clear	iron (Fe).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,1 ppm
acidity.....	max. 0,0005 meq/g	magnesium (Mg).....	max. 0,1 ppm
alkalinity.....	max. 0,0002 meq/g	manganese (Mn).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	nickel (Ni).....	max. 0,02 ppm
barium (Ba).....	max. 0,1 ppm	tin (Sn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	zinc (Zn).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,05 ppm	carbonyl compounds (as C3H7CHO).....	max. 0,01 %
calcium (Ca).....	max. 0,5 ppm	residue on evaporation.....	max. 0,001 %
chromium (Cr).....	max. 0,02 ppm	water (K.F.).....	max. 0,1 %

Physical data

- Density: 0,78 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 25,3 °C
- Boiling point: 82 - 83 °C
- Flash point: 14 °C
- Ignition temperature: 490 °C
- Vapour pressure: (20 °C) 40,7 hPa
- Viscosity: (30 °C) 3,35 mPas
- Dipolar moment: (20 °C) 1,7 Debye
- Dielectric const.: (30 °C) 10,9
- Saturation conc.: (20 °C) 122 g/m³
- Expl. limit (upper): 8,0 Vol%
- Expl. limit (lower): 2,3 Vol%
- pH(20 °C) 7

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H225: Highly flammable liquid and vapour.
H332: Harmful if inhaled.
H319: Causes serious eye 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.
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 II • UN 1120 • BUTANOLS
- IMDG: 3 II • UN 1120 • BUTANOLS
- IATA/ICAO: 3 II • UN 1120 • BUTANOLS
- PAX: 353
- CAO: 364
- 10°C - 30°C