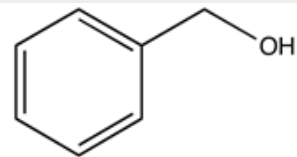


Identification

C₇H₈O
M = 108,14 g/mol
CAS [100-51-6]
EC number: 202-859-9
Taric code: 2906 21 00


Synonyms

Phenylmethanol, Phenylcarbinol

Applications

analytical chemistry, perfumery, microscopy.

Specifications

assay (G.C.) min. 99,5 %
assay (titrimetric)..... 98,0 - 100,5 %
identity (IR-spectrum)..... passes test
appearance of solution..... clear and colourless
colour (Hazen)..... max. 10
refractive index n₂₀/D..... 1,538 - 1,541
acidity..... max. 0,001 meq/g
alkalinity..... max. 0,002 meq/g
halogen compounds (as Cl) max. 0,001 %
aluminium (Al)..... max. 0,5 ppm
barium (Ba)..... max. 0,1 ppm
boron (B)..... max. 0,02 ppm
cadmium (Cd)..... max. 0,05 ppm
calcium (Ca)..... max. 0,5 ppm
chromium (Cr)..... max. 0,02 ppm
cobalt (Co)..... max. 0,02 ppm

copper (Cu)..... max. 0,02 ppm
iron (Fe)..... max. 0,1 ppm
lead (Pb)..... max. 0,1 ppm
magnesium (Mg)..... max. 0,1 ppm
manganese (Mn)..... max. 0,02 ppm
nickel (Ni)..... max. 0,02 ppm
tin (Sn)..... max. 0,1 ppm
zinc (Zn)..... max. 0,1 ppm
peroxide index..... max. 5

Related substances:

Imp. A (benzaldehyde)..... max. 0,15 %
Imp. B (cyclohexylmethanol)..... max. 0,10 %
Sum of other peaks with a relative retention less than that of benzyl alcohol..... max. 0,04 %
Sum of peaks with a relative retention greater than that of benzyl alcohol..... max. 0,3 %
sulfated ash..... max. 0,005 %
residue on evaporation..... max. 0,05 %
water (K.F.)..... max. 0,1 %

Physical data

- Density: 1,045 g/cm³
- Solub. in water: (20 °C): 40 g/l
- Melting point: -15,4 °C
- Boiling point: 205,3 °C
- Flash point: 101 °C
- Ignition temperature: 436 °C
- Vapour pressure: (20 °C) 0,07 hPa
- Refraction index: (n₂₀ °C/D) 1,5396
- Dipolar moment: (20 °C) 1,7 Debye
- Dielectric const.: (25 °C) 13,1
- Evap. heat: (205 °C) 467 KJ/kg
- Saturation conc.: (20 °C) 0,56 g/m³
- Expl. limit (upper): 13 Vol %
- Expl. limit (lower): 1,3 Vol %

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H302: Harmful if swallowed.
H332: Harmful if inhaled.
H319: Causes serious eye irritation.


Precautionary Statements:

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P321: Specific treatment (see on this label).
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C