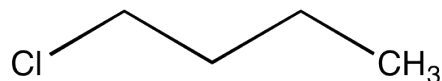


1-Chlorobutane, HPLC grade
Identification

C_4H_9Cl
 M = 92,57 g/mol
 CAS [109-69-3]
 EC number: 203-696-6
 Taric code: 2903 19 80


Synonyms

n-Butyl chloride, n-Propylcarbonyl chloride

Applications

analytical chemistry, synthesis of organic products.

Specifications

assay (G.C.).....min. 99,8 %
 identity (IR-spectrum).....passes test
 density (20°/4°).....0,885 - 0,887
 acidity.....max. 0,0002 meq/g
 alkalinity.....max. 0,0002 meq/g
 residue on evaporation.....max. 0,0001 %
 water (K.F.).....max. 0,03 %

min. transmission/max. absorbance in a 1,0 cm cell at
 wavelength:.....T(%) A (AU)
 225 nm.....20 % 0,699 AU
 230 nm.....50 % 0,301 AU
 245 nm.....90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22 µm

Physical data

- Density: 0,88 g/cm³
- Solub. in water: (20 °C): ~ 0,5 g/l
- Melting point: -123 °C
- Boiling point: 78 °C
- Flash point: ~ -17 °C
- Ignition temperature: ~ 280 °C
- Vapour pressure: (20 °C) ~ 110 hPa
- Viscosity: (20 °C) 0,45 mPas
- Expl. limit (upper): 10,1 Vol%
- Expl. limit (lower): 1,8 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapour.


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.
 P370+P378: In case of fire: Use ... for extinction.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 3 F1 II • UN 1127 • CHLOROBUTANES
- IMDG: 3 II • UN 1127 • CHLOROBUTANES
- IATA/ICAO: 3 II • UN 1127 • CHLOROBUTANES
- PAX: 305
- CAO: 307
- 10°C - 30°C