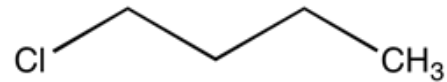


1-Chlorobutane, for analysis, ExpertQ®

Identification

C₄H₉Cl
M = 92,57 g/mol
CAS [109-69-3]
EC number: 203-696-6
Taric code: 2903 19 80

**Synonyms**

n-Butyl chloride, n-Propylcarbinyl chloride

Applications

analytical chemistry, synthesis of organic products.

Specifications

assay (G.C.).....	min. 99,5 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/4°).....	0,885 - 0,887	lead (Pb).....	max. 0,1 ppm
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,1 ppm
acidity.....	max. 0,0005 meq/g	manganese (Mn).....	max. 0,02 ppm
cadmium (Cd).....	max. 0,05 ppm	nickel (Ni).....	max. 0,02 ppm
calcium (Ca).....	max. 0,5 ppm	zinc (Zn).....	max. 0,1 ppm
chromium (Cr).....	max. 0,02 ppm	sulphur compounds (as S).....	max. 0,002 %
cobalt (Co).....	max. 0,02 ppm	residue on evaporation.....	max. 0,001 %
		water (K.F.).....	max. 0,03 %

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