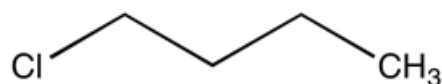


1-Chlorobutane, HPLC grade

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. 99,8 %	min. transmission/max. absorbance in a 1,0 cm cell at
identity (IR-spectrum).....	passes test	wavelength:..... T(%) A (AU)
density (20°/4°).....	0,885 - 0,887	225 nm..... 20 % 0,699 AU
acidity.....	max. 0,0002 meq/g	230 nm..... 50 % 0,301 AU
alkalinity.....	max. 0,0002 meq/g	245 nm..... 90 % 0,046 AU
residue on evaporation.....	max. 0,0001 %	
water (K.F.).....	max. 0,03 %	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