

DATA SHEET Nr A
n-Butyl chloride
NBCL



Molecular formula:	C ₄ H ₉ Cl
Molecular weight:	92.6
CAS number:	109-69-3
EC number:	203-696-6

SPECIFICATION

Parameter	Guaranteed value
Appearance	colorless liquid
Purity (GC)	≥ 99.0 %
n-butanol	≤ 1000 ppm
water	≤ 500 ppm
Acidity	0.05 mg KOH/g (titration)

SYNONYMS

1-Chlorobutane
1-Butyl chloride

APPEARANCE

Clear, colorless liquid

PHYSICAL PROPERTIES

Density:	0.89 g/cm ³
Boiling point:	78.5 °C / 101 kPa
Melting point:	-123.1 °C

CHEMICAL

Solubility:

- Soluble in usual organic solvents (acetone, toluene, chloroform, THF).
- Insoluble in water

Reactivity:

- Reacts with strong nucleophiles
- Converts to butanol in when in contact with alkaline solutions

USES

- Used in the preparation of nucleophilic organometallic reagents
- Used in the syntheses of common ionic liquids
- Used in the preparation of olefin polymerization catalysts

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PACKAGING

Contact VanDeMark.

HANDLING PRECAUTIONS

- Physicochemical hazard:

Flash point (closed cup): -12 °C

- Health hazards:

LD50 (Oral, Rat): 2200 mg/kg

- Recommended:

When handling this product wear chemically resistant gloves, approved safety eyewear and laboratory-appropriate chemically-chemically resistant clothing.

If eyes or skin are contaminated wash immediately with clean water for at least 15 minutes. In case of inhalation of concentrated vapors take person to fresh air. In both cases consult a physician.

STORAGE

The product is stable when stored in its closed original packaging, protected from direct sunshine, in a covered, dry, cool and well-ventilated area.

However, in case of prolonged storage it is recommended to analyze the product for the presence of butanol prior to use.

TRANSPORTATION

Refer to MSDS.

EMERGENCY RESPONSE

*Contact CHEMTREC 1-800-424-9300 in case of a transportation incident.

*Contact VanDeMark 1-716-433-6764 for all other incidents.