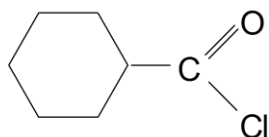


DATA SHEET Nr 1950 F

CYCLOHEXANECARBONYL CHLORIDE

HBCL



Molecular formula:	C ₇ H ₁₁ ClO
Molecular weight:	146.5
CAS number:	2719-27-9
EC number:	220-322-7

SYNONYM

Hexahydrobenzoyl chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.09 g/cm³

Boiling point: 74°C/3 kPa

Solubility:

Soluble in usual organic solvents (toluene, acetone, methylene chloride, THF, dichloroethane, etc.).

CHEMICAL PROPERTIES

- Reacts by hydrolysis yielding cyclohexane carboxylic acid and hydrogen chloride.
- Reacts with alcohols yielding esters.
- Reacts with amines yielding amides.

USES

- Synthesis intermediate for fine chemicals and pharmaceuticals.

CYCLOHEXANECARBONYL CHLORIDE

HBCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Purity	≥ 97.0 %	Gas chromatography	GC – 471
Hydrogen chloride	≤ 0.1%	Acidimetry	A – 220
Benzoyl chloride	≤ 0.5%	Gas chromatography	GC – 471
Cyclohexenecarbonyl chloride	≤ 0.1%	Gas chromatography	GC – 471
Chlorocyclohexanecarbonyl chloride	≤ 0.1%	Gas chromatography	GC – 471
Cyclohexanecarboxylic acid cyclohexylester	≤ 0.05%	Gas chromatography	GC – 471
Cyclohexanecarboxylic acid ethylester	≤ 0.05%	Gas chromatography	GC – 471
Cyclohexanecarboxylic acid cyclohexylmethylester	≤ 0.05%	Gas chromatography	GC – 471
Cyclohexanecarboxylic acid methylester	≤ 0.05%	Gas chromatography	GC – 471

PACKAGING

Polyethylene lined metal drum containing 200 kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flashpoint (closed cup): 90 °C
- Health hazard:
LD 50 (oral, rat): 975 mg/kg
Irritating on skin and mucous membrane.
Corrosive.
- Recommended:
Wear gloves, goggles, mask and protective clothes.
If eyes are contaminated, wash immediately with clean water for at least 15 minutes. Consult a physician.
- Neutralization:
Neutralize by an alkaline solution.

STORAGE

Stored in its closed original drum in a covered, dry, cool and well-ventilated warehouse the product is stable.

However, in case of prolonged storage it is recommended to check again the product quality before use by measuring the specified components.

TRANSPORTATION

Refer to MSDS.

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August 2018



503/0113(6)-465(6)