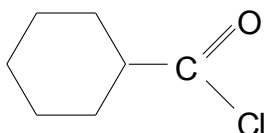


DATA SHEET Nr 1950 D

HEXAHYDROBENZOYL CHLORIDE

(CYCLOHEXANE CARBONIC ACID CHLORIDE)

HBCL



Molecular formula:	C ₇ H ₁₁ ClO
Molecular weight:	146,5
CAS number:	2719-27-9
EU number:	2203227

SYNONYM

Cyclohexane carbonyl chloride

ASPECT

Clear liquid with a pungent odor

PHYSICAL PROPERTIES

Density: d₄20 1,09

Boiling point: 74°C/ 2660Pa

Solubility:

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

CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding cyclohexanoic acid and HCl.
- Reacts with alcohols yielding esters.
- Reacts with amines yielding amides.

USES

- Synthesis intermediate for fine chemicals and pharmaceuticals.

HEXAHYDROBENZOYL CHLORIDE — Framochem

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Assay	≥ 97,0 %	Gas chromatography	GC-471
HCl	≤ 1,0%	Acidimetry	A-220
Benzoylchloride	≤ 0,5%	Gas chromatography	GC-471
Cyclohexene carbonic acid chloride	≤ 0,1%	Gas chromatography	GC-471
Chloro-cyclohexane carbonic acid chloride	≤ 0,1%	Gas chromatography	GC-471
Cyclohexane carbonic acid-cyclohexylester	≤ 0,05%	Gas chromatography	GC-471
Cyclohexane carbonic acid-ethylester	≤ 0,05%	Gas chromatography	GC-471
Cyclohexane carbonic acid-cyclohexyl methylester	≤ 0,05%	Gas chromatography	GC-471
Cyclohexane carbonic acid-methylester	≤ 0,05%	Gas chromatography	GC-471

PACKAGING

PE lined metal drum containing 200 kg.

In bulk.

HANDLING PRECAUTIONS

Refer MSDS.

- Physico-chemical hazard
Flashpoint (tag closed cup): 90 °C
- Health hazard:
LD 50 (ingestion, rat): 975 mg/kg.
Harmful. 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 basic solution.
- Destruction
Incineration.

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 before use, by measuring typical parameters.

TRANSPORT

Refer to MSDS.

Nr. 1950 D November, 2014