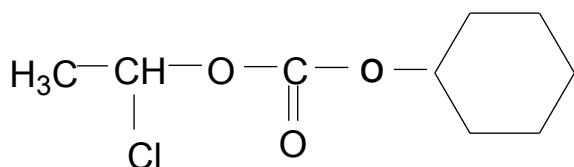


DATA SHEET Nr 3600 H

1-CHLORO ETHYL CYCLOHEXYL CARBONATE

CECC



Molecular formula:	C ₉ H ₁₅ ClO ₃
Molecular weight:	206,7
CAS number:	99464-83-2
EU number:	444-950-8

SYNONYM

Carbonic acid 1-chloroethyl-cyclohexyl ester

ASPECT

Clear liquid with a pungent odour

PHYSICAL PROPERTIES

Density: d₄20 1,12

Melting point: -80 °C

Solubility:

Soluble in common organic solvents (toluene, acetone, chloroform, THF).

CHEMICAL PROPERTIES

- Reacts with carboxylic acids or their salts.
- Reacts with amines yielding ureas or carbamates.
- Halogen exchange in acetone media.

USES

- Synthesis intermediate for pharmaceuticals (carboxylic function protecting agent).
- Organic synthesis intermediate

1-CHLORO ETHYL CYCLOHEXYL CARBONATE (CECC) — Framochem

Specification

Parameter	Guaranteed value	Method	Operating procedure
Aspect	Clear liquid	Visual control	
Color	from colorless to yellowish	Visual control	
HCl	≤ 0,01 %	Potentiometry	A-220
Assay	≥ 98,0 %	Gas chromatography	GC-390
Dicyclohexyl carbonate	≤ 0,2 %	Gas chromatography	GC-390
Cyclohexanol	≤ 1,0 %	Gas chromatography	GC-390
I1 impurity	≤ 0,05 %	Gas chromatography	GC-390
I2 impurity	≤ 0,05 %	Gas chromatography	GC-390
I3 impurity	≤ 0,2 %	Gas chromatography	GC-390
Unspecified impurity, each	≤ 0,2 %	Gas chromatography	GC-390
Water	≤ 0,05 %	Karl Fischer	K-110

PACKAGING

PE drum containing 220 kg.

PE-lined metal drum containing 200 kg.

HANDLING PRECAUTIONS

Refer the MSDS.

- Physico chemical hazard: Flashpoint (tag close cup): 100 °C
- Health hazards:
LD 50 (rat, oral): 5600 mg/kg.
Irritating on skin, mucous membranes and eyes.
- Recommended:
Wear glasses, gloves and protective clothes
- Destruction
By incineration.

STORAGE

Stored in its closed original drum, in a covered, dry and well-ventilated warehouse, lower than 15°C, the product is stable.

Harmful.

However, in case of prolonged storage it is recommended to check again the product before use, by measuring typical parameters (alcohol level).

TRANSPORT

Refer to MSDS.

Nr. 3600 H November, 2014