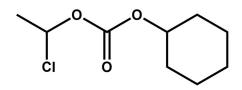


## DATA SHEET Nr 3600 J

# 1-CHLOROETHYL CYCLOHEXYL CARBONATE

# 1CECC



## **SYNONYM**

Carbonic acid, 1-chloroethyl cyclohexyl ester Cilexetil chloride

#### **APPEARANCE**

Clear liquid with pungent odor

#### PHYSICAL PROPERTIES

Density:  $1.12 \text{ g/cm}^3$ 

Melting point:  $-16 \,^{\circ}\text{C}$ 

Boiling Point: 184 °C (pred.)

#### Solubility:

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

Molecular formula:  $C_9H_{15}ClO_3$ 

Molecular weight: 206.7

CAS number: 99464-83-2

EC number: 444-950-8

#### **CHEMICAL PROPERTIES**

• Slowly hydrolyzes to its constitutive alcohols and carbonic acid

#### **USES**

- Useful building block in a range of pharmaceutical syntheses
- Frequently used to functionalize pharmaceutical intermediates with pendant cyclohexyl carbonate moieties.



# 1-CHLOROETHYL CYCLOHEXYL CARBONATE (1CECC)

#### **SPECIFICATION**

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual control	
Colour	from colorless to yellowish	Visual control	
HC1	≤ 0,01 %	Acidimetry	A-220
Purity	≥ 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

- <u>Physical chemical hazard:</u> Flashpoint (tag close cup): 100 °C
- Health hazards:

LD 50 (rat, oral): 5600 mg/kg. Irritating on skin, mucous memranes and eyes.

# • Recommended:

When handling, wear approved safety eyewear, chemical resistant gloves and laboratory-appropriate protective clothing

For contact with skin or eyes, flush the contaminated area for at least 15 minutes with clean water and contact a physician.

For acute inhalation, remove the person to fresh air immediately and contact a physician.

Destruction by incineration.

#### **STORAGE**

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

In the case of prolonged storage, the product should be re-analyzed for the existence of chemical degradation (coloration, cyclohexanol).

#### **TRANSPORT**

Refer to MSDS.

Nr. 3600 J August, 2016





