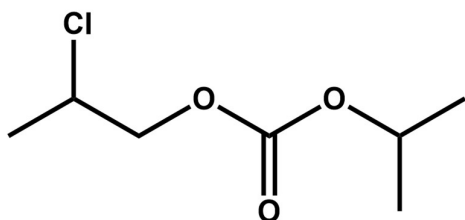


DATA SHEET Nr 3500 D

1-CHLOROETHYL ISOPROPYL CARBONATE

1CEIC



Molecular formula:	C ₆ H ₁₁ ClO ₃
Molecular weight:	166.6
CAS number:	98298-66-9
EC number:	424-590-8

SYNONYM

α-Chloroethyl isopropyl carbonate
Carbonic acid 1-chloroethyl isopropyl ester
1-chloroethyl 1-methylethyl carbonate

APPEARANCE:

Clear liquid.

PHYSICAL PROPERTIES

Density (20 °C): 1.085 g/cm³

Boiling point: 164.3 °C

Melting point: -80 °C

Solubility:

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

Not soluble in water.

REACTIVITY

- Slowly hydrolyzes into its constitutive alcohols and carbonic acid.

USES

- Frequently employed building block in pharmaceutical research.

1-CHLOROETHYL ISOPROPYL CARBONATE (1CEIC)

SPECIFICATIONS

Parameter	Guaranteed value	Method	Operating procedure
Appearance	clear liquid		
Color	≤ 100 APHA	Colorimetry	C – 210
Purity	≥ 98.5 %	Gas chromatography	GC – 388
Isopropyl alcohol	≤ 0.5 %	Gas chromatography	GC – 388
1-Chloroethyl ethyl carbonate	≤ 0.1 %	Gas chromatography	GC – 388
Di-isopropyl carbonate	≤ 1.0 %	Gas chromatography	GC – 388
Isopropyl vinyl carbonate	≤ 0.5 %	Gas chromatography	GC – 388
Largest unidentified impurity	≤ 0.2 %	Gas chromatography	GC – 388
Water	$\leq 0.10\%$	Karl-Fischer	K – 110

PACKAGING

Polyethylene lined metal drums containing 180kg.

HANDLING PRECAUTIONS

- Physicochemical hazard:

Flash point : 55.1°C

- Health hazard:

LD 50 (rat, oral): >2000mg/kg.
Sensitization by skin contact. Irritant.

- When handling use approved safety eye-wear, chemically resistant gloves and protective laboratory clothing

If contact with skin occurs, rinse with soap and water. For contact with eyes flush gently with clean water and consult a physician.

- Destruction: Incineration.

STORAGE

The product is stable if stored in its closed, original drum in a covered, dry, cool and well-ventilated area.

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

TRANSPORT

Refer to MSDS.

Nr. 3500 D August, 2016



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