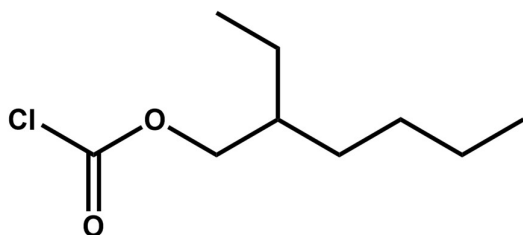


DATA SHEET Nr 2110 F

2-ETHYLHEXYL CHLOROFORMATE

2EHCF



Molecular formula:	C ₉ H ₁₇ ClO ₂
Molecular weight:	192.7
CAS number:	24468-13-1
EC number:	246-278-9

SYNONYMS

Carbonochloridic acid, 2-ethylhexyl ester;
2-ethylhexyl chlorocarbonate.

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C):	0.98 g/cm ³
Boiling point:	207°C
Melting point:	< - 55 °C
Solubility:	
Soluble in usual organic solvents (acetone, toluene, chloroform, THF).	

CHEMICAL PROPERTIES

- Hydrolyzes to hydrochloric acid, carbon dioxide and 2-ethylhexanol.
- Reacts with alcohols to yield 2-ethylhexyl carbonates.
- Reacts with amines to yield 2-ethylhexyl carbamates.

USES

- Organic synthesis intermediate.
- Starting material for the syntheses of polymerization initiators including 2-ethylhexyl peroxydicarbonate.

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SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 20 APHA	Colorimetry	C – 210
Purity	≥ 99.3 %	Gas chromatography	GC – 270
Phosgene	≤ 0.01 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.02 %	Acidimetry	A – 220
Iron	≤ 0.5 ppm	Atomic absorption spectrometry	AAS – 810
2-Ethylhexanol	≤ 0.1 %	Gas chromatography	GC – 270
Di-(2-ethylhexyl) carbonate	≤ 0.3 %	Gas chromatography	GC – 270
Carbon tetrachloride	≤ 0.01 %	Gas chromatography	GC – 270

PACKAGING

Polyethylene lined metal drum containing 180 kg.
Polyethylene drum containing 200 kg.
In bulk.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 86 °C
- Health hazards:
LD 50 (oral, rat): 5420 mg/kg
Slightly irritating on skin, mucous membrane and eyes.
Corrosive.
- Recommended:
Avoid contact with metallic compounds which catalyze its decomposition.
Wear gloves, goggles, mask and protective clothes.
If eyes are contaminated wash immediately with clean water for at least 15 minutes and

consult a physician. If concentrated vapors are inhaled carry person into fresh air and call a physician.

- Neutralization:
Neutralize by treatment with cold alkaline solutions.

STORAGE

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

However, in case of prolonged storage it is recommended to check again the product before use by measuring typical parameters of its quality such as color, 2-ethylhexanol and hydrogen chloride levels.

TRANSPORTATION

Refer to MSDS.



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