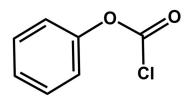


DATA SHEET Nr 5900 F PHENYL CHLOROFORMATE **PCF**



SYNONYMS

Carbonochloridic acid, phenyl ester Phenyl carbonochloridate

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 1.24 g/cm^3

Melting Point: -38 °C

Boiling point: 185 °C (101 kPa)

Solubility:

organic Soluble in usual solvents: (acetone,

chloroform, toluene, THF).

Molecular formula: C7H5ClO2 Molecular weight: 156.5 CAS number: 1885-14-9 EC number: 217-547-8

CHEMICAL PROPERTIES

- Reacts by hydrolysis to yield hydrochloric acid, phenol and carbon dioxide.
- Reacts with amines yielding phenyl carbamates
- Reacts with alcohols to yield phenyl carbonates.

USES

- Integral in the syntheses of polycarbonate materials and polyaromatic resins.
- Used as a building block in a range of pharmacological syntheses frequently involving carbonate, carbamate or urea functionalities



PHENYL CHLOROFORMATE PCF

SPECIFICATION

| Parameter | Guaranteed value | Method | Operating procedure |
|--------------------|------------------|--------------------|---------------------|
| Appearance | Clear liquid | Visual | |
| Color | ≤ 50 APHA | Colorimetry | C-210 |
| Purity | ≥ 99.0 % | Gas chromatography | GC - 267 |
| Phosgene | ≤ 0.05 % | Iodometry | I-230 |
| Hydrogen chloride | ≤ 0.1 % | Acidimetry | A – 220 |
| Phenol | ≤ 0.2 % | Gas chromatography | GC - 267 |
| Diphenyl carbonate | ≤ 0.2 % | Gas chromatography | GC - 267 |

PACKAGING

Polyethylene lined metal drum containing 200 kg.

Bulk

HANDLING PRECAUTIONS

• Physicochemical hazard: Flash point (closed cup):

69°C

• Health hazards:

LD 50 (oral, rat): 1580 mg/kg

Corrosive; irritating to skin, mucous membranes and eyes

Recommended:

Avoid contact with metals that catalyze decomposition.

Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling

In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician.

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

• Neutralization:

Neutralize by reaction with cold alkaline solutions.

STORAGE

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

In the case of prolonged storage, re-analyze for the presence of HCl and phenol prior to use

TRANSPORTATION

Refer to MSDS

Nr 5900 F August 2018



