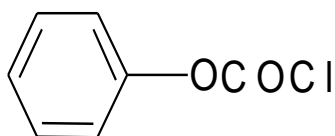


DATA SHEET Nr 5900 F

**PHENYL CHLOROFORMATE**  
**PCF**



Molecular formula:	C <sub>7</sub> H <sub>5</sub> Cl O <sub>2</sub>
Molecular weight:	156.5
CAS number:	1885-14-9
EC number:	217-547-8

**SYNONYM**

Phenyl chlorocarbonate.

**APPEARANCE**

Clear liquid with pungent odor.

**PHYSICAL PROPERTIES**

Density (20 °C):	1,24 g/cm <sup>3</sup>
Melting point:	-38 °C
Boiling point:	120 °C/10 kPa
Solubility:	
Soluble in usual organic solvents (toluene, acetone, chloroform).	

**CHEMICAL PROPERTIES**

- Reacts by hydrolysis yielding carbon dioxide and phenol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

**USES**

- Organic synthesis intermediate.

## 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.

In bulk.

#### HANDLING PRECAUTIONS

- Physicochemical hazard:  
Flashpoint (closed cup): 69 °C
- Health hazard:  
LD 50 (oral, rat): 1580 mg/kg  
Irritating to the eyes, skin and mucous membrane.
- Recommended:  
When handling this product wear gloves, goggles, mask and protective clothes.  
In case of eyes contamination wash with plenty of water at least 15 minutes. If the product is ingested or the vapors are inhaled take the injured person immediately to a physician.

- Neutralization:  
Neutralize by reaction with an alkaline solution.

#### STORAGE

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

However, in case of prolonged storage the main parameters of the product (color, hydrogen chloride and phenol levels) are recommended to be checked before use.

#### TRANSPORTATION

Refer to MSDS.

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August 2018



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