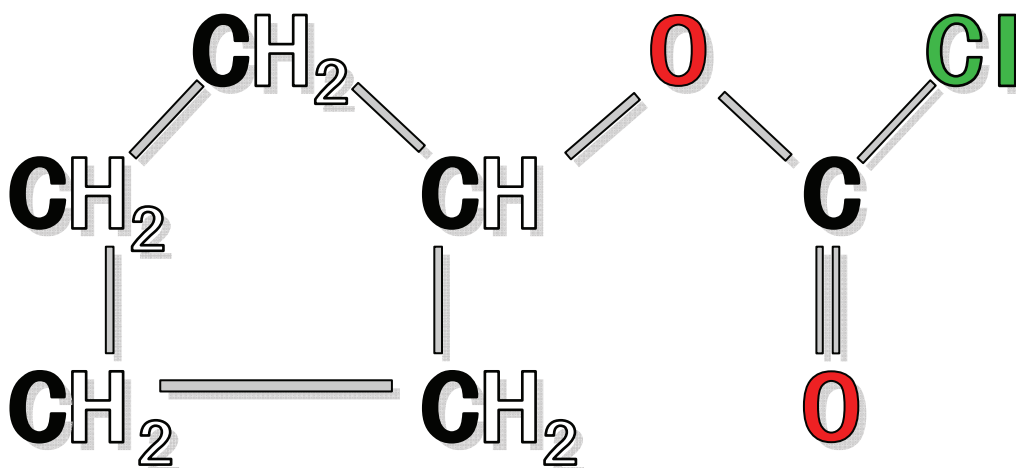


Cyclopentyl Chloroformate

(CARBONCHLORIDIC ACID, CYCLOPENTYL ESTER)



Molecular Weight = 148.59

CAS# 50715-28-1

SPECIFICATIONS

Assay:	97% min.
Cyclopentyl Chloride	3.0% max.
Cyclopentanol	0.2% max.
Cyclopentyl Carbonate	0.2% max.
Phosgene	0.05% max.
Hydrogen Chloride	0.1% max.
Color (APHA)	100 max.

PHYSICAL PROPERTIES

Appearance :	Clear, colorless to slightly yellow liquid
Odor:	Acrid
Melting Point:	<-60°C
Flash Point:	42.5°C
Boiling Point:	70°C @ 25 mm Hg
Density:	1.1507 g/cm ³ @ 20°C
Vapor Pressure:	1.53 mm Hg (20°C)

NOTICE: The technical information and suggestions for use made herein are based on VanDeMark's research and experience and are believed to be reliable, but such information and suggestions do not constitute a warranty, and no patent liability can be assumed. This publication is not to be taken as a license to operate under or infringe on any patents. Since VanDeMark has no control over the conditions under which the product is transported, stored, handled, used or applied, buyer must determine for himself by preliminary tests or otherwise, the suitability of the product for his purposes. VanDeMark's liability on any basis is limited to the price of the product used. The information in this bulletin supersedes all previously issued bulletins on the subject matter covered.

APPLICATIONS

Cyclopentyl Chloroformate is a chemical intermediate used in the synthesis of pharmaceutical and agricultural chemical intermediates.

SAFETY AND HANDLING

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Prevent breathing of mist or vapors. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation.

FIRST AID

Seek immediate medical attention. Show MSDS to doctor.

Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician immediately.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Ingestion:

Call a physician or Poison Control Center immediately. Remove from exposure, lie down. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Inhalation:

Call a physician or Poison Control Center immediately. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

SPILLS AND DISPOSAL

Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Dike for later disposal; do not apply water unless directed to do so. Neutralize with soda ash (sodium carbonate) or lime over area of spill. Cover liquid spill with sand, earth or other noncombustible absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not direct water at spill or source leak. Use non-sparking tools and equipment.

STORAGE

Keep at <5°C. Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers

PACKAGING AND SHIPPING

Cyclopentyl Chloroformate is available in 20 kg pail, 125 kg drum and 225 kg drum. Other packaging can be considered upon request.

EMERGENCY RESPONSE

*Contact CHEMTREC 1-800-424-9300 in case of a transportation incident.

*Contact VanDeMark 1-716-433-6764 for all other incidents.

VanDeMark

Phosgene Chemistry – Custom Chemicals

VanDeMark Chemical Inc.

One North Transit Road, Lockport, NY 14094

Toll-Free: 800-836-8253

Phone: 716-433-6764 • Fax: 716-433-2850

E-mail: sales@vandemark.com

www.vandemark.com

