

Product Information Bulletin

DIPHENYL CHLOROPHOSPHATE

Code 21812

Synonyms:

Diphenyl Phosphorochloridate.

Abbreviation:

DPCP

Description:

Clear, colorless to pale yellow liquid.

CAS Registry Number:

2524-64-3

Empirical Formula:

C₁₂H₁₀ClO₃P

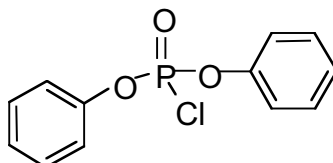
HS Tariff Number:

2920.90

Molecular Weight:

268.64

Structure:



Chemical Properties:

Reacts with water, initially forming hydrogen chloride, diphenyl phosphate and tetraphenyl pyrophosphate. Ultimate hydrolysis products are hydrochloric acid, phosphoric acid and phenol. Diphenyl chlorophosphate is a reactive compound, possessing labile Cl- and PhO- groups.

Availability:

Commercial Quantities.

Specifications:

Assay (GC):	98.0% minimum
	<1.0% phenyldichlorophosphate;
	<0.5% triphenyl phosphate;
	<1.0% tetraphenyl pyrophosphate

Physical Properties:

Boiling Range (5-7 mmHg):	187-191°C/369-376°F
(25 mmHg):	209-212°C/408-414°F
Specific Gravity (25/25°C):	1.30
Refractive Index (25°C/D):	1.5500
Flash Point (Penske-Martin Closed Tester):	>235°F/113°C
Viscosity:	14.0 cp at 77°F/25°C
Solubility:	Soluble in most inert organic solvents.

For Additional Information and Handling Instructions Read Cytec Industries Inc. Material Safety Data Sheet.

IMPORTANT NOTICE

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility or as an assumption of a duty on our part. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information, products or vendors referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

CYTEC

Technology ahead of its time®

• **Canada** - Cytec Canada Inc., Niagara Falls, Ontario, 1-905-356-9000 • **Europe** - Cytec Industries France S.A.R.L., Rungis-Cedex, 33-1-41-80-17-00
• **United States** - Cytec Industries Inc., West Paterson, NJ, 1-973-357-3100 • **Asia/Pacific** - Cytec Australia Holdings Pty. Ltd., Baulkham Hills, NSW, 61-2-9846-6200.