DPC

Phosphorus Specialties

Product Information Bulletin

DIPHENYL PHOSPHINOUS CHLORIDE

Code 21817

Synonyms:

Diphenyl Chlorophosphine

Abbreviation:

DPC

Description:

Light yellow to tan clear liquid with musty odor.

CAS Registry Number:

1079-66-9

Empirical Formula:

$C_{12}H_{10}PCl$

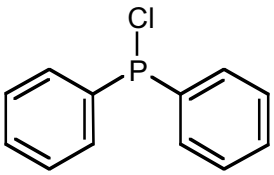
HS Tariff Number:

2931.00

Molecular Weight:

220.6

Structure:



Chemical Properties:

Hydrolyzes and disproportionates in water or alcohols to form diphenylphosphinic acid and diphenylphosphine. Reacts with alcohols in presence of tertiary amines to form alkyl diphenylphosphinites. Can be oxidized to diphenylphosphinic chloride or (with sulfur) diphenylphosphinothionic chloride. Can add chlorine to form diphenyltrichlorophosphorane.

Availability:

Commercial Quantities.

Specifications:

Assay (GC):	98% minimum

Physical Properties:

Boiling Range (760 mmHg)	608ºF/320ºC
Melting Point:	57.2-60.8ºF/14-16ºC
Specific Gravity (25/25ºC):	1.18-1.20
Refractive Index (25ºC/D):	1.6339-1.6343
Vapor Pressure (mmHg):	1 at 230ºF/110ºC
	10 at 320ºF/160ºC
	57 at 414ºF/212ºC
Flash Point (Open Cup):	280ºF/138ºC
Autoignition Temperature:	608ºF/320ºC
Viscosity:	9.5 cp at 68ºF/20ºC
Solubility:	Soluble in most inert anhydrous solvents.
	Decomposes (hydrolyzes) in water and alcohols.

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

IMPORTANT NOTICE

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