BPD

Phosphorus Specialties

Product Information Bulletin

BENZENE PHOSPHORUS DICHLORIDE

Code 21807

Synonyms:

Phenylphosphonous Dichloride

Abbreviation:

BPD

Description:

Colorless liquid with a phosphine-like odor.

Empirical Formula:

$C_6H_5PCl_2$

CAS Registry Number:

644-97-3

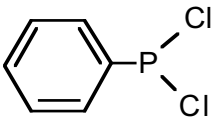
HS Tariff Number:

2931.00

Molecular Weight:

179

Structure:



Chemical Properties:

Reacts with water. Fumes in air. Chloride highly reactive with alcohols, phenols, and epoxides. Forms adducts with halogens, ketones and aldehydes. Wurtz condensation gives dialkyl or diaryl phenylphosphines. Usual reactivity of aromatic moiety. Trivalent phosphorus is readily oxidizable.

Availability:

Commercial Quantities.

Specifications:

Assay (GC):	99.0% minimum

Physical Properties:

Boiling Range (760 mmHg):	436.3ºF/224.6ºC
Melting Point (approximate):	-60ºF/-51ºC
Specific Gravity (25/25ºC):	1.316-1.320
Refractive Index (25ºC/D):	1.5958
Vapor Pressure (mmHg):	10 at 208.4ºF/98ºC
Flash Point (Setaflash CC):	215ºF/102ºC
Autoignition Temperature:	509ºF/265ºC
Solubility:	Soluble in most inert aprotic organic solvents. Decomposes (hydrolyzes) in water.

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

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• **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.

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