BPT

Phosphorus Specialties

Product Information Bulletin

BENZENE PHOSPHORUS THIODICHLORIDE

Code 21809

Synonyms:

Phenyl Phosphonothioic Dichloride

Abbreviation:

BPT

Description:

Light yellow-colored liquid.

Empirical Formula:

$C_6H_5PSCl_2$

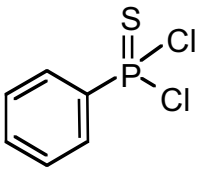
CAS Registry Number:

3497-00-5

HS Tariff Number:

2931.00

Structure:



Molecular Weight:

211.06

Chemical Properties:

Decomposes slowly in water. Two reactive chlorine atoms available for reacting with alcohols, phenols, and amides to form corresponding neutral esters and amides. Benzene ring can be nitrated, chlorinated, etc.

Availability:

Commercial Quantities.

Specifications:

Assay (GC):	95% minimum
Color (Gardner):	4 maximum

Physical Properties:

Boiling Range	
(3 mmHg):	195.8ºF/91ºC
(760 mmHg):	518ºF/270ºC
Melting Point (approximate):	-11.2ºF/-24ºC
Specific Gravity (25/25ºC):	1.393
Refractive Index (25ºC/D):	1.625
Vapor Pressure (mmHg):	2.5 at 212ºF/100ºC
	23.0 at 320ºF/160ºC
	96.0 at 392ºF/200ºC
Vapor Density (air=1):	7.3
Flash Point : (Tag. Closed Cup)	>200ºF/93ºC
Solubility:	Soluble in common inert anhydrous 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.

©2004 Cytec Industries Inc. All Rights Reserved.

12/04 HOR