DECP

Phosphorus Specialties

Product Information Bulletin

DIETHYL CHLOROPHOSPHATE

Code 21812

Synonyms:

Diethyl Phosphorochloridate

Abbreviation:

DECP

Description:

Clear, colorless to light amber liquid.

Empirical Formula:

$C_4H_{10}O_3PCl$

CAS Registry Number:

814-49-3

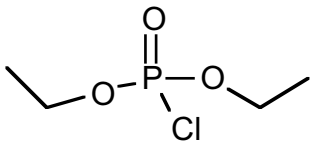
HS Tariff Number:

2920.10

Molecular Weight:

172.55

Structure:



Chemical Properties:

Reacts with H_2O with moderate build-up, fuming and gas evolution. Forms highly toxic tetraethyl pyrophosphate (TEPP) as it first hydrolyzes. Final hydrolysis products are HCl, phosphoric acid and ethanol. Diethyl chlorophosphate is a reactive compound; Cl-& CH_3CH_2O-groups are available for chemical reactions.

Availability:

Commercial Quantities.

Specifications:

Assay (GC):	96% minimum (at time of shipment)

Physical Properties:

Boiling Range:	
(2 mmHg):	140ºF/60ºC
(15 mmHg):	195.8-197.6ºF/91-92ºC
Specific Gravity (20/20ºC):	1.194
Refractive Index (25ºC/D):	1.4153
Vapor Pressure (mmHg)	0.1 at 77ºF/25ºC
	2.0 at 140ºF/60ºC
	10.0 at 183.2ºF/84ºC
Flash Point: (Tag. Closed Cup)	200ºF/93ºC
Solubility:	Soluble in most inert organic solvents.

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

IMPORTANT NOTICE

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