
CYTOP[®] 355

Organophosphine

Tricyclopentylphosphine

CYTOP 355 organophosphine is a very strong reducing agent and is classified as a pyrophoric liquid. Tricyclopentylphosphine is thermally stable and has an indefinite shelf life when stored under an inert atmosphere.

Tricyclopentylphosphine has been specifically developed for use as a catalyst ligand. It is well suited for this purpose because of its large cone angle and strong nucleophilic properties.

Typical Properties

Formula Weight	238
Molecular Formula	C ₁₅ H ₂₇ P
Appearance	Clear, light yellow liquid with a garlic-like odor
Boiling Point	140°C @ 202 mm Hg
Specific Gravity	0.98 @ 24° C

Handling and Storage

Keep away from heat, sparks and flames. Handle in an atmosphere of inert gas such as nitrogen. Vapor has an offensive odor. Do not breathe. Do not get in eyes, on skin, or on clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep cylinder out of sun and away from heat.

Exposure to air and other oxidizing material must be avoided. This material is a strong reducing agent. Contact with other combustible materials may cause fire. Store and handle under an atmosphere of inert gas such as nitrogen.

Health and Safety

The toxicological properties of this material have not been fully investigated. Based on the pyrophoric property of this material, overexposure by the oral and inhalation route is unlikely. Direct contact with this material can cause thermal burns of the eyes and skin.

Before handling this material, read the corresponding Cytec Industries Inc. Material Safety Data Sheet (MSDS) for safety and health data.

Shipping

CYTOP 355 organophosphine is available in up to ten gal (37.85 L) "pope" vessels, 700 lb (317.5 kg) cylinders, and bulk quantities.

Government Approval/Regulatory Information

For chemical inventory regulatory control listing information for the United States, Canada and European Union, see the 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 PARTICULAR PURPOSE IS MADE. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

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