CYTOP® 266 Organophosphine

Dicyclohexylphosphine

CYTOP 266 organophosphine is a strong reducing agent and is classified as a pyrophoric liquid. It is thermally stable and has an indefinite shelf life stored under an inert atmosphere. It can be used for preparing mixed tertiary alkylphosphines or multi-dentate catalyst ligands. It can also be converted to phosphinic ormono and dithiophosphinic acids. CYTOP 266 organophosphine may also be used as an intermediate in the preparation of UV stabilizers for plastics.

Typical Properties

Formula Weight	198
Molecular Formula	$C_{12}H_{23}P$
Appearance	Clear, colorless liquid with a garlic-like odor
Boiling Point	140°C @ 12mm Hg

Handling and Storage

Keep away from contact with clothing and other combustible materials. Do not store near combustible materials. Avoid contact with air. Handle in an atmosphere of inert gas such as nitrogen. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor. Store in a tightly closed container. Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

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 acute oral (rat) and acute dermal (rabbit) LD50 values for this product are 0.22 and 1.15 mL/kg, respectively. This product is easily oxidized and contact with materials such as hair, clothing, and paper may cause autoignition resulting in thermal burns. This product was not mutagenic in the Ames Assay.

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

Shipping

CYTOP 266 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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