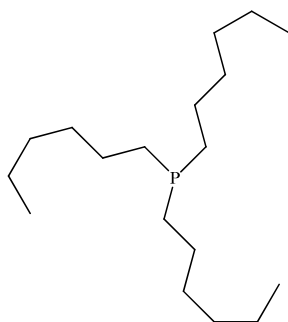


CYTOP[®] 360

Trihexylphosphine C.A.S. No.: [4168-73-4]



Description

CYTOP 360 is a clear, colorless, non-pyrophoric liquid with a boiling point of 227 °C @50 mmHg. Additionally, CYTOP 360 is strongly reducing agent and must be handled under an inert atmosphere.

Trihexylphosphine is a useful intermediate for the synthesis of alkylphosphineoxide /sulfide solvent extractant reagents and phosphonium salts (ionic liquids). Trihexylphosphine also finds utility in many tributylphosphine-related applications such as polyisocyanate monomer synthesis, in Mitsunobu reactions with high stereoselectivity and as a catalyst ligand. The sole advantage over tributylphosphine being that it is non-pyrophoric.

Typical Properties¹:

	Unit	Value
Purity	Wt.%	>96
Formula Weight	g/mole	286.48
Molecular formula		C ₁₈ H ₃₉ P
Appearance		Clear, liquid
Boiling point (@ 50 mmHg)	°C	227
Specific Gravity (@ 25 °C)	g/cc	0.818
Flash point	°C	>93

¹Typical values based on samples tested. Not specifications

Features:

- Very low vapour pressure
- Strong reducing agent
- Non-pyrophoric
- Readily dispensed mobile liquid

Packaging

The standard CYTOP 360 package sizes are 40 and 450 liter returnable cylinders with lesser quantities for pilot studies available on request.

Storage and Handling

Keep away from heat, sparks, and flames. Keep from contact with clothing and other combustible materials. Avoid contact with air or other oxidizing agents. Handle in an atmosphere of inert gas such as nitrogen. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Store in a tightly closed container. Use with adequate ventilation. 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. Store and handle under an atmosphere of inert gas such as nitrogen to avoid oxidation.

Application References

- 1) *Synthesis*, 2003,3,317-335

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