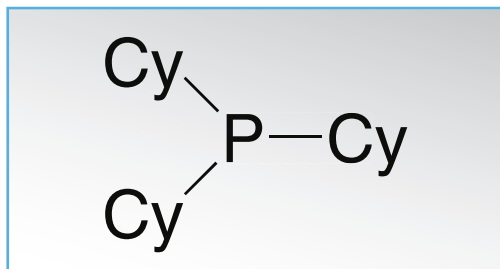


Sold in collaboration with Solvay.

Tricyclohexylphosphine, min. 98%, CYTOP® 366



Product Details	
Purity	min. 98%
Color and Form	white crystals
Melting Point	76-78 °C
CAS No.	2622-14-2
Molecular Formula	C ₁₈ H ₃₃ P
Molecular Weight	280.44 g/mol

Tricyclohexylphosphine (TCHP) is a white, air-sensitive solid. In large part due to its steric bulk and electronic rich nature, the primary application of the product is as a versatile ligand for homogeneous catalysis.

Technical Notes:

1. **CYTOP® 366** is widely used as a ligand for ruthenium-catalyzed metathesis chemistry that is important in the synthesis of active pharmaceutical ingredients, such as simeprevir.¹
2. Tricyclohexylphosphine is an effective ligand for the formation of indoles by palladium-catalyzed coupling.²
3. TCHP has also been used as the ligand for catalytic olefin hydrogenation under Crabtree's conditions, for example in the total synthesis of Paxil.³
4. The use of tricyclohexylphosphine in the palladium-catalyzed hydroborylation of alkynes directs the regioselectivity to α -vinylboronates whereas N-heterocyclic carbene ligands result in β -vinylboronates.⁴
5. **CYTOP® 366** is a component of catalyst systems that have been investigated for the breakdown of rubber by cross-metathesis.⁵

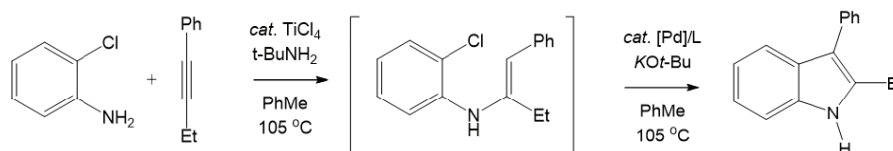


Figure 1: Use of Tricyclohexylphosphine (L) in Indole formation²

References:

1. *D. J. Org. Chem.*, **2019**, *84*, 4932-4939.
2. *Tetrahedron*, **2008**, *64*, 769-777.
3. *Tetrahedron*, **2006**, *62*, 10594-10602.
4. *Org. Lett.*, **2016**, *18*, 432-435.
5. *Green Chem.*, **2016**, *18*, 3448-3455.

Storage and Handling:

Handle in accordance with good industrial hygiene and safety practices, which include avoiding unnecessary exposure to the product and removal of material from skin, eyes and clothing. As the material is air-sensitive it should be stored and handled under an atmosphere of inert gas such as nitrogen or argon. Appropriate PPE should be worn. For additional health, safety and handling information refer to the product SDS. Keep containers tightly sealed and store in a dry area at room temperature. Rotate stock using the oldest material first.

Visit www.strem.com for new product information and a searchable catalog.

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