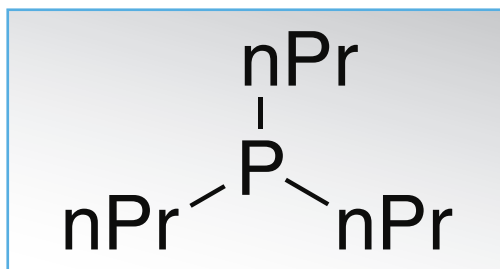


Sold in collaboration with Solvay.

Tripropylphosphine, min. 98%, CYTOP® 330



Product Details	
Purity	98%
Color and Form	Colorless liquid
Density	0.8
Flash Point	62 °C
CAS No.	2234-97-1
Molecular Formula	C ₉ H ₂₁ P
Molecular Weight	160.24 g/mol

CYTOP® 330 is a clear, colorless, pyrophoric liquid. Tri-n-propylphosphine is a tertiary phosphine that must be handled under an inert atmosphere. The chemistry of tri-n-propyl phosphine is typical of most tertiary alkylphosphines. It can readily be functionalized into phosphonium salts or oxidized with hydrogen peroxide or sulfur to synthesize the relevant phosphine oxide and chalcogenides.

Technical Notes:

- CYTOP® 330** is an alkyl phosphine that can be employed as a Wittig reagent in pharmaceutical relevant reactions.¹
- It has also been employed in production of polyisocyanurate plastics.²
- CYTOP® 330** can also act as a ligand for catalysis.^{3,4}
- Furthermore, it has been employed in photochemical applications as well.⁵
- Lastly, it has been studied as a support ligand in the synthesis of quantum dots and nanoparticles.⁶

References:

- Organic Letters*, **2019**, 29, 1395-1398.
- World Patent WO 2018039795*, **2019**.
- Organic Letters*, **2019**, 21, 4407-4410.
- World Patent WO 20171-2689*, **2017**.
- World patent WO 2017208837*, **2017**.
- Chinese Patent CN 107236536*, **2017**.
- Chinese Patent CN 107216869*, **2017**.

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.

CYTOP® 330 is classified as “pyrophoric” and on exposure to air under the right conditions, it can ignite spontaneously. 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 or argon.

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