

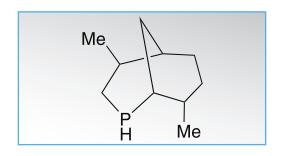
15-7605: CYTOP® 170



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Sold in collaboration with Solvay.

4,8-Dimethyl-2-phosphabicyclo[3.3.1]nonane, min. 90%, CYTOP® 170



Product Details	
Purity	min. 90%
Color and Form	Colorless to pale yellow liquid
Density	0.95
Flash Point	221*F
Boiling Point	120*C
CAS No.	328952-85-8
Molecular Formula	C ₁₀ H ₁₉ P
Molecular Weight	170.23 g/mol

CYTOP® 170 is a clear, colorless, air-sensitive liquid with a lemon-like odor and a boiling point of 120 °C. 4,8-Dimethyl-2-phosphabicyclo[3.3.1]nonane is a powerful reducing agent and must be handled under an inert atmosphere. CYTOP® 170 finds application mainly as a building block for other phosphine derivatives, which are used as ligands in various homogeneous catalytic processes.

Technical Notes:

- 1. CYTOP® 170 is used to synthesize hindered tertiary phosphines via the addition of an olefin using free radical initiators.
- 2. These tertiary phosphines have been used as ligands for cobalt-catalyzed hydroformylation.
- 3. CYTOP® 170 can also be used to make bidentate phosphine ligands by its' reaction with dihaloorganics, such as dibromo-oxylene, the palladium complexes of these ligands finding utility as catalysts.

References:

- 1. Tet. Lett., 2001,42, 2609-2612,
- 2. Dalton Trans., 2003, 2036-2042.
- 3. WO Patent Application 01/1620.

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. The material is classified as corrosive, so appropriate PPE should be worn. For additional health, safety and handling information, refer to the product SDS. Keep containers tightly sealed, with the product under an atmosphere of inert gas, 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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