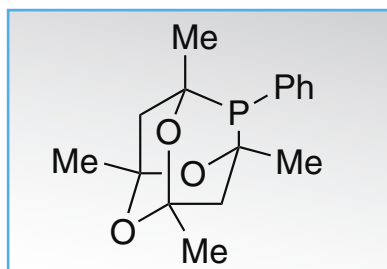


Sold in collaboration with Solvay.

1,3,5,7-Tetramethyl-6-phenyl-2,4,8-trioxa-6-phosphaadamantane, min. 95%, CYTOP® 292

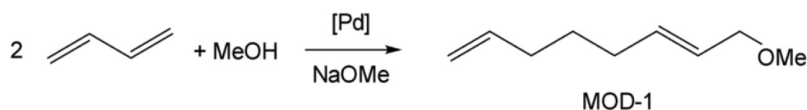


Product Details	
Purity	min. 95%
Color and Form	white to off-white solid
Melting Point	109-110°C
CAS No.	2622-14-2
Molecular Formula	C ₁₆ H ₂₁ O ₃ P
Molecular Weight	292.31 g/mol

CYTOP® 292 is a white solid powder. The material will decompose with long exposure to air – for proper handling please refer to SDS. **CYTOP® 292** finds application mainly as a ligand in various homogeneous catalytic processes.

Technical Notes:

- CYTOP® 292** is primarily used in telomerization of butadiene.¹
- Compared to triphenyl phosphine, it increases conversion and selectivity. **CYTOP® 292** is also employed as a ligand in Heck reactions and hydroaminomethylation.^{2,3}
- CYTOP® 292** has also been employed in the synthesis of antibodies and antibody drug conjugates.^{4,5}



	CYTOP® 292	PPh ₃
Conv.	96%	88%
Selectivity	94%	91%
Yield	90%	80%

Figure 1: Comparison of Ligands for Butadiene Telomerization

References:

- Org. Process Res. Dev.* **2019**, 23, 1654-1658.
- ACS Catalysis*, **2020**, 10, 7262-7268.
- Advanced Synthesis and Catalysis*, **2019**, 361, 4201-4207.
- World Patent*, WO 2017214462, **2017**.
- World Patent* WO2017214322, **2017**.

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.

Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950
U.S.A
Tel: 978.499.1600
Fax: 978.465.3104
Email: info@strem.com

Strem Chemicals, Inc.
15 rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Tel: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK Ltd.
An Independent Distributor of Strem Chemicals Products
Newton Hall, Town Street
Newton, Cambridge
England CB22 7ZE
Tel: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk