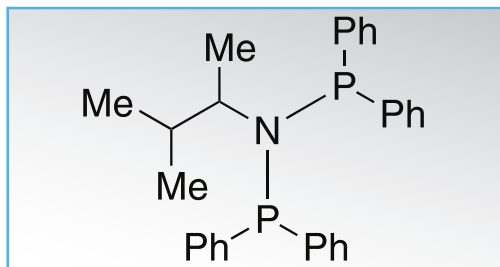


Sold in collaboration with Solvay.

## N,N-bis(diphenylphosphino)-1,2-dimethylpropylamine, min. 98%, RHODAPHOS® PNP12M



Product Details	
Purity	min. 98%
Color and Form	white solid
Density	0.6
CAS No.	872187-64-9
Molecular Formula	C <sub>29</sub> H <sub>31</sub> NP <sub>2</sub>
Molecular Weight	455.52 g/mol

**RhodaPhos® PNP12M** is a white solid powder. The material will decompose with long exposure to air – for proper handling please refer to SDS. **RhodaPhos® PNP12M** finds application mainly as ligand for olefin oligomerization chemistry, but can be used as a ligand in various homogeneous catalytic processes.

### Technical Notes:

- RhodaPhos® PNP12M** is primarily used in the trimerization and tetramerization of ethylene.<sup>1-4</sup>
- RhodaPhos® PNP12M** is also modular so derivatives of this species can be synthesized for further chemistry. It brings advantages to these systems due to increased yields of desired oligomers and reduced polymer formation in reactors.<sup>5</sup>

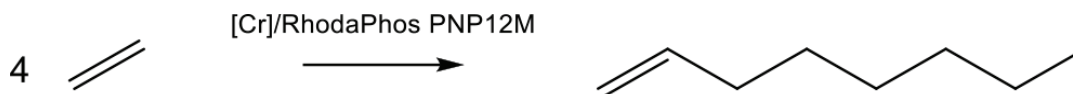


Figure 1: Tetramerization of Ethylene

### References:

- Reaction Chemistry & Engineering*, **2019**, 4, 131-140.
- US Patent 20150152200*, **2015**.
- World Patent WO2011048527*, **2011**.
- World Patent WO2015095347*, **2015**.
- US Patent US20120172645*, **2012**.

### 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](http://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](mailto: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](mailto:info.europe@strem.com)

**Strem Chemicals, Inc.**  
Postfach 1215  
77672 KEHL  
Germany  
Tel: 0 78 51/ 7 58 79  
Email: [info.europe@strem.com](mailto: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](mailto:enquiries@strem.co.uk)