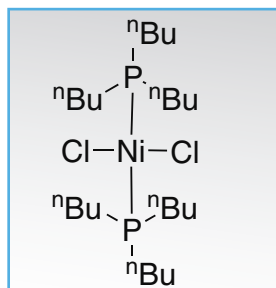


Sold in collaboration with Solvay.

Dichlorobis(tributylphosphine)nickel(II), 15-35% in hydrotreated light Naphtha (petroleum), RHODAPHOS[®] NICAT

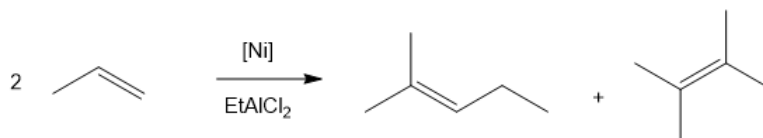


Product Details	
Color and Form	red liq.
CAS No.	15274-43-8
Molecular Formula	C ₂₇ H ₆₃ P ₃ NiCl ₂
Molecular Weight	534.23 g/mol
Flash Point	-9 °F

RHODAPHOS[®] NICAT is a nickel-based catalyst with alkylphosphine ligands. It comes as a 20 or 30 wt% solution in hexanes with low water content. **RHODAPHOS[®] NICAT** can be employed in many industrial catalysis reactions as it comes in solution and is easy to handle. The material is provided as a high-purity solution. As it can be oxidized by oxygen, it comes blanketed under nitrogen and is recommended to be kept as such when not in use to avoid deterioration.

Technical Notes:

- RHODAPHOS[®] NICAT** is most commonly employed in dimerizations of olefins of varying lengths (butenes, propenes, ethenes etc.).¹⁻⁴
- In many cases, the catalyst increases and/or maximizes the creation of 2-butene. **RHODAPHOS[®] NICAT** has also been employed as a catalyst for forming polymers via condensation.⁵
- Furthermore, it has been employed as a catalyst in regioselective cycloadditions of alkynes.⁶
- Lastly, there is work reported in which this molecule is employed as a catalyst for applications such as hydrogenation of olefins and isomerization reactions.^{7,8}



References:

- Chem. Eng. & Tech.* **2016**, 39, 263-270.
- Patent*, 3082844 A1, **2019**.
- World patent*, 105844 A1, **2019**.
- Ind. & Eng. Chem. Res.* **1995**, 34, 1149-1155.
- J. Polym. Sci. A: Polym. Chem.* **2012**, 50, 3628-3640.
- Angew. Chem. Int. Ed.* **2010**, 49, 4649-4652.
- J. Am. Chem. Soc.* **1963**, 85, 4014-4018.
- Synlett.* **1994**, 11, 941-942.

Storage and Handling:

RHODAPHOS[®] NICAT is a hazardous material. As such, all users should refer to the SDS prior to handling. Keep away from heat, sparks and flames. Keep from contact with clothing and other combustible materials. Contact with other combustible materials may cause fire. Avoid contact with air or other oxidizing agents. Do not get in eyes, on skin or on clothing. Avoid breathing vapor. Store in a tightly closed container. Store and handle under an atmosphere of inert gas such as nitrogen or argon. Use with adequate ventilation. Wash thoroughly after handling. Promptly remove and wash contaminated clothing.

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