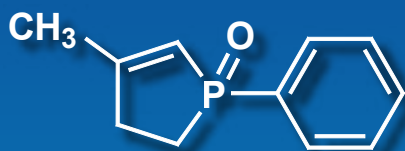


Phospholene Oxide Organocatalyst for Isocyanate Transformation Reactions



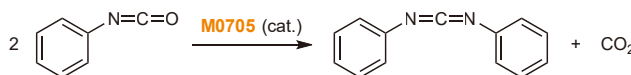
3-Methyl-1-phenyl-2-phospholene 1-Oxide
5g / 25g
[M0705]

Advantages

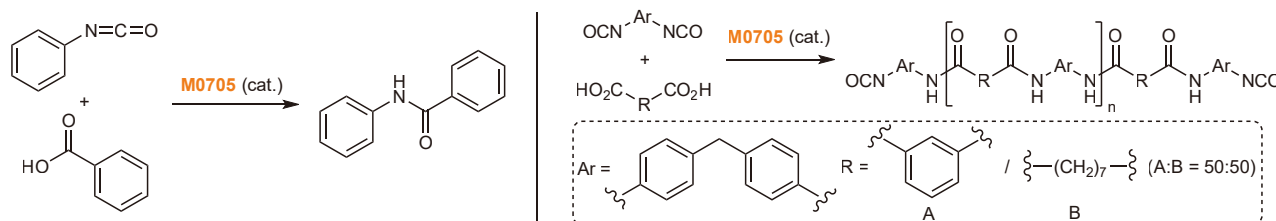
- Organophosphorus catalyst known as **MPPPO**
- Catalyses carbodiimide formation, Wittig reaction, etc.
- Available in large quantities

Applications

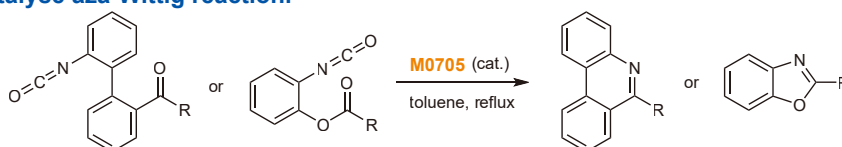
- **M0705** is widely used as catalyst for carbodiimide synthesis.¹⁾



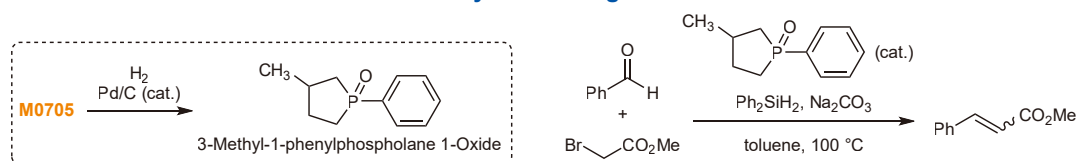
- Synthesis of amides using **M0705** has been reported. **M0705** is also applicable to the synthesis of polyamides.²⁾



- **M0705** can catalyse aza-Wittig reaction.³⁾



- The reduced form of **M0705** is used as a catalyst for Wittig reaction.⁴⁾



- References 1) B. A. Arbuzov, A. O. Vigel, K. M. Ivanovskaya, *Doklady Akademii Nauk SSSR* **1966**, 170, 585.
2) T. Otsuki, M. Kakimoto, Y. Imai, *Makromol. Chem., Rapid Commun.* **1987**, 8, 637. <https://doi.org/10.1002/marc.1987.030081210>
3) S. P. Marsden, A. E. McGonagle, B. McKeever-Abbas, *Org. Lett.* **2008**, 10, 2589. <https://doi.org/10.1021/ol800921n>
4) C. J. O'Brien, G. A. Chass, *et al.*, *Angew. Chem. Int. Ed.* **2009**, 48, 6836. <https://doi.org/10.1002/anie.200902525>

Related Product

anti-1,2,2,3,4,4-Hexamethylphosphetane 1-Oxide

1g / 5g [H1766]

H1766 can catalyse a variety of reactions such as C-N cross-coupling and N-N bond formation.

Ordering and Customer Service

TCI AMERICA

Tel : 800-423-8616 / 503-283-1681
Fax : 888-520-1075 / 503-283-1987
E-mail : Sales-US@TCIchemicals.com

TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH

Tel : +49 (0)6196 64053-00
Fax : +49 (0)6196 64053-01
E-mail : Sales-DE@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 78 45 60
E-mail : Sales-UK@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

Tokyo Chemical Industry (India) Pvt. Ltd.

Tel : 1800 425 7889 / 044-2262 0909
E-mail : Sales-IN@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878
E-mail : globalbusiness@TCIchemicals.com

• Chemicals itemized in this brochure are for research and testing use only. Please avoid use other than by chemically knowledgeable professionals. • Information such as listed products and its specifications and so on are subject to change without prior notice. • The contents may not be reproduced or duplicated in whole or in part without permission of Tokyo Chemical Industry Co., Ltd.