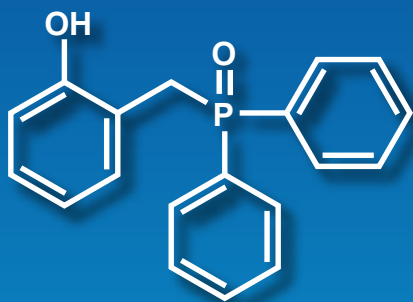


New

CHEMISTRY

TCI®

Phosphine Oxide Catalyst for Mitsunobu-Type Substitution Reactions

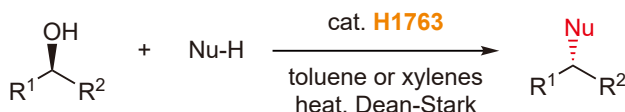


2-[(Diphenylphosphoryl)methyl]phenol
1g / 5g
[H1763]

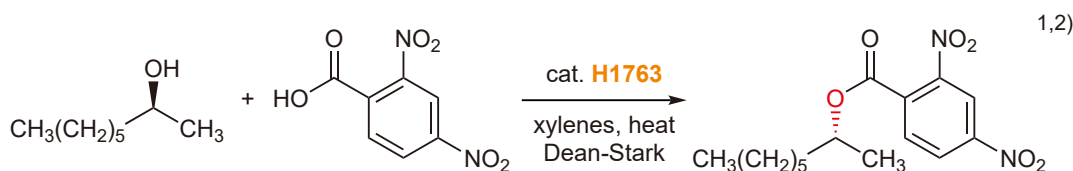
Advantages

- Stable solid against air and moisture
- Catalyzes the Mitsunobu-type substitution reactions without using any oxidants and reductants
- Applicable to C-S and C-N bond formation as well as C-O bond formation

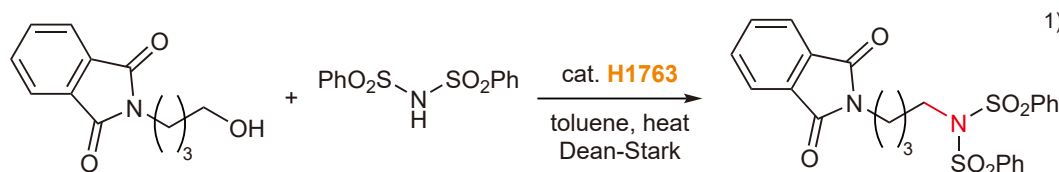
Applications



C-O bond formation



C-N bond formation



References 1) R. H. Beddoe, K. G. Andrews, V. Magné, J. D. Cuthbertson, J. Saska, A. L. Shannon-Little, S. E. Shanahan, H. F. Sneddon, R. M. Denton, *Science* **2019**, 365, 910. <https://doi.org/10.1126/science.aax3353>
2) L. Zhou, S. Perulli, M. M. Mastandrea, P. Llanes, J. Laia, M. A. Pericàs, *Green Chem.* **2021**, 23, 8859. <https://doi.org/10.1039/D1GC02819G>

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