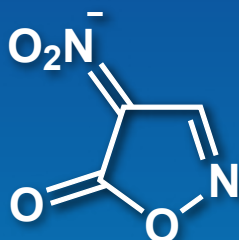
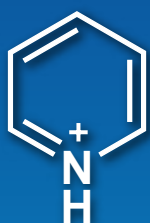


Safe Cyano(nitro)methylating Reagent



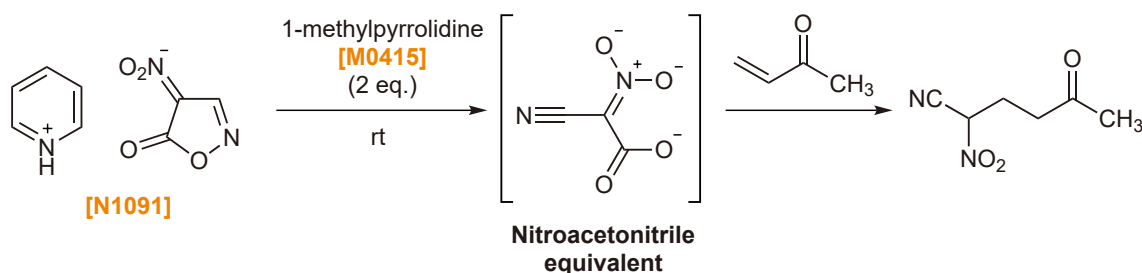
[N1091]

Advantages

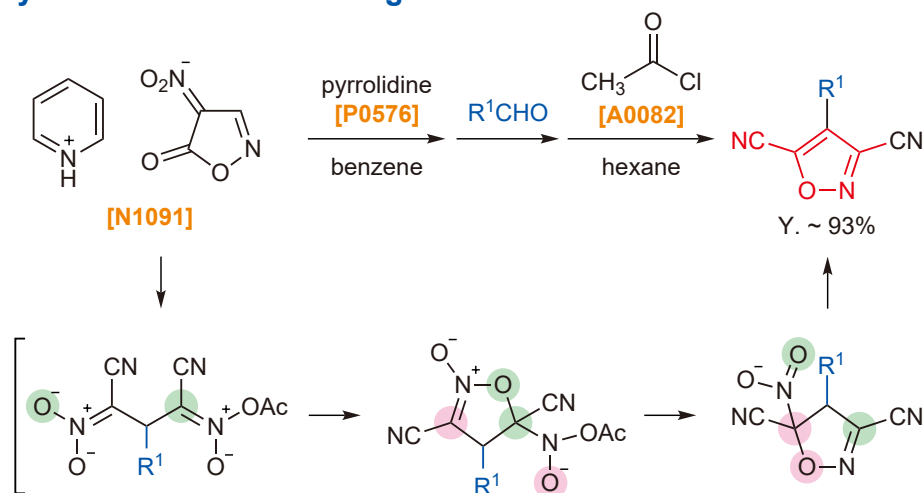
- Solid Soluble in Various Organic Solvents
- Forming a Nitroacetonitrile Equivalent in the Presence of a Base
- Effective for the Synthesis of Polyfunctionalized Nitrogen-including Heterocycles

Applications

1,4-Addition by the Nitroacetonitrile Equivalent¹⁾



One-pot Synthesis of Isoxazole Rings²⁾



- References 1) H. Asahara, K. Muto, N. Nishiwaki, *Tetrahedron* **2014**, 70, 6522.
2) N. Nishiwaki, T. Nogami, T. Kawamura, N. Asaka, Y. Tohda, M. Ariga, *J. Org. Chem.* **1999**, 64, 6476.

4-Nitro-5(2H)-isoxazolone Pyridinium Salt

1g / 5g [N1091]

Related Products

1-Methylpyrrolidine
Pyrrolidine
Acetyl Chloride

25mL / 100mL / 500mL [M0415]
25mL / 500mL [P0576]
100g / 500g [A0082]

Introduction of the Researcher

The Nishiwaki Group

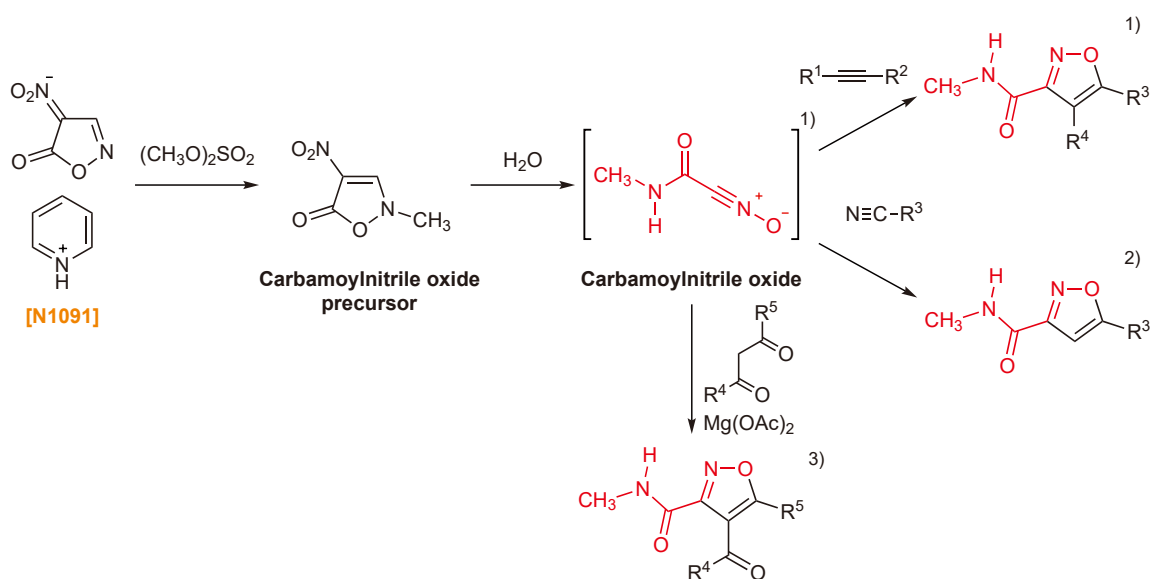
Kochi University of
Technology
School of Environmental
Science and Engineering



Research Description

The Nishiwaki group has been working on the development of easier synthetic methods for polyfunctionalized compounds. Their research interests are to use the chemically functionalized synthetic units and conceptual "pseudo-intramolecular reaction" for their synthetic chemistry. They also study the development of new ring transformation reactions. Their research is aimed for developing easy access synthetic processes leading to new polyfunctionalized synthetic units useful for pharmaceutical, agricultural and material science research.

Synthesis of the Carbamoylnitrile Oxide Precursor and Its Use



- References**
- 1) N. Nishiwaki *et al.*, *Org. Biomol. Chem.* **2011**, *9*, 2832.
 - 2) N. Nishiwaki *et al.*, *Org. Biomol. Chem.* **2011**, *9*, 6750.
 - 3) N. Nishiwaki *et al.*, *Org. Biomol. Chem.* **2012**, *10*, 1987.

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