

# Catalytic Mitsunobu Reagent

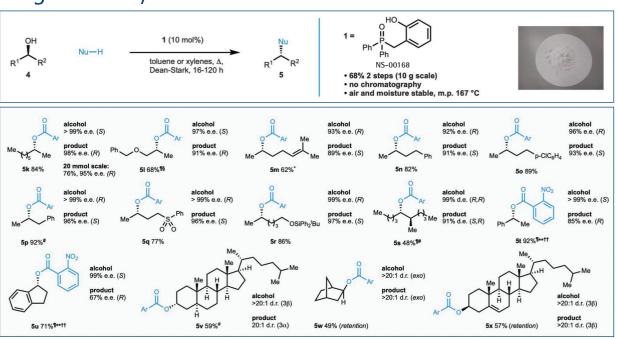


UNITED KINGDOM  $\cdot$  CHINA  $\cdot$  MALAYSIA

## Redox-neutral organocatalytic Mitsunobu reactions

Organic Chemistry

Nucleophilic substitution reactions of alcohols are among the most fundamental and strategically important transformations in organic chemistry. For over half a century. these reactions have been achieved by using stoichiometric. and often hazardous, reagents to activate the otherwise unreactive alcohols, Ross Denton & co-workers have recently demonstrated that a specially designed phosphine oxide promotes nucleophilic substitution reactions of primary and secondary alcohols in a redox-neutral catalysis manifold that produces water as the sole by-product (Science, 2019, 365, 910-914). The scope of the catalytic coupling process encompasses a range of acidic pronucleophiles that allow stereospecific construction of carbon-oxygen and carbonnitrogen bonds



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#### **Functional Group and Substructure Group Classes**

### BIONET **Functional Groups**

### BIONET

Substructure Groups

Alcohols Aldehydes Amines

Amino Acids Aromatic OH **Boron Compounds** Carboxylic Acids

Diamines Dicarbonvls 1.3

Esters

Fluorinated Compounds

Hydrazides

Protected Compounds Reactive Halides Saturated Compounds

Sulphonyl Chlorides

Thiols

Anilines

Benzimidazoles Benzodioxepines

Benzodioxines Benzodioxoles

> Benzofurans Benzothiadiazole

> > **Renzothiazines**

**Benzothiazoles** 

Benzoxazines

**Furans** 

Indoles

Imidazoles

Isoindoles

Isoquiolines

Isothiazoles

Naphthalenes

Isoxazoles

Benzothiaphenes

**Hydrazines** Hydroxylamines

Ketones

Miscellaneous Functional Groups

Nitriles

Spiro Compounds

Naphthyridines

Azaindoles Other Ring Systems Oxadiazoles

Oxazoles **Piperidines** 

Pyrans **Pyrazoles** 

Pyrazolopyridines

**Pvridines Pvrimidines** Pyrroles

**Pvrrolidines** Benzoxazoles/Benzisoxazoles Quinazoline

Quinolines Quinoxalines Thiadiazoles

Thiazolanes Thiazoles Thiaphenes

Triazoles

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