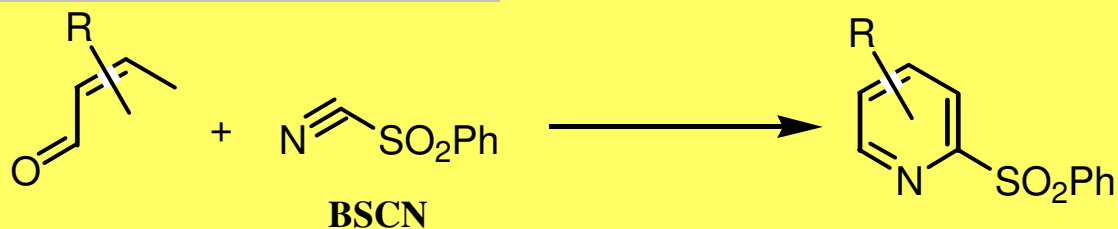


Pyridines Synthesis

Hetero Diels-Alder Reaction

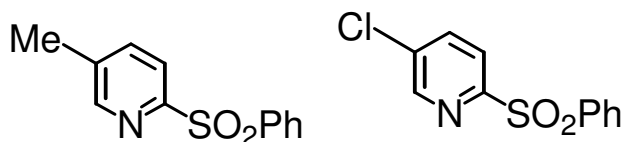
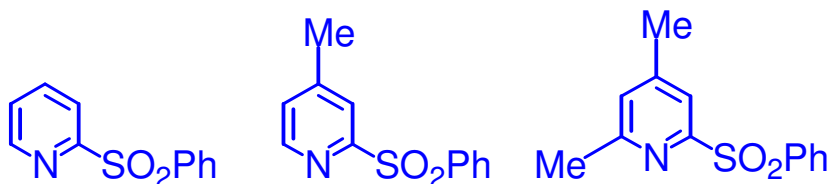


Kuraray's Feature

1. High Regioselectivity (No Regio Isomer)
2. PhSO₂-Groups are Convertible to Various Functional Groups

Product Line of Pyridines

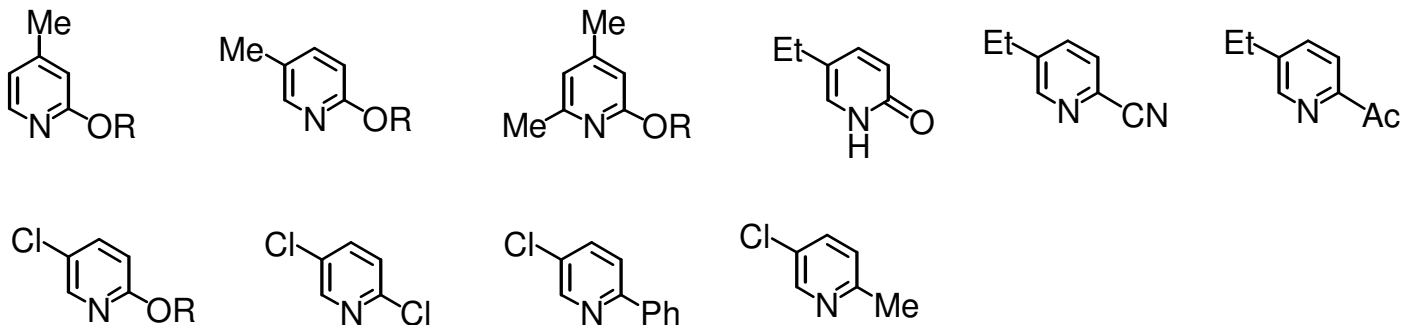
Sulfonyl Pyridines



pilot plant quantity

laboratory quantity

Pyridine Derivatives from Sulfonyl Pyridines

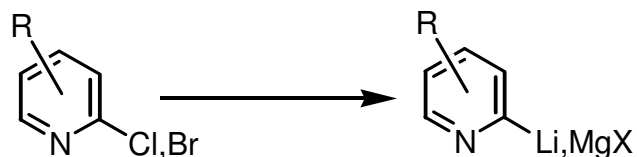
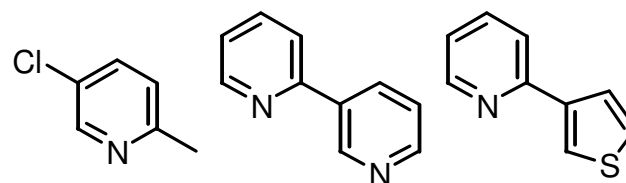
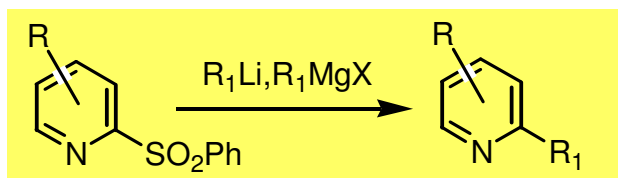


Reactivity of Sulfonyl Pyridines(1)

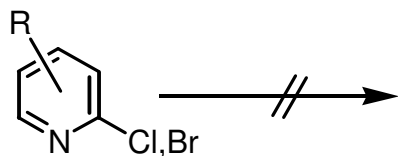
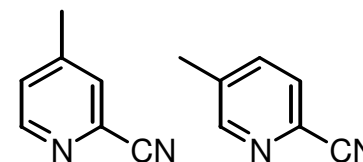
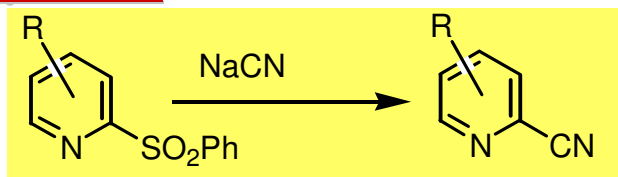
Comparison with Halopyridines

Kuraray Co.,Ltd.

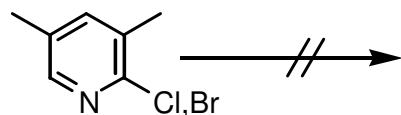
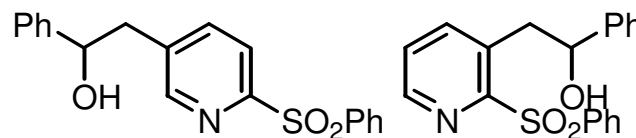
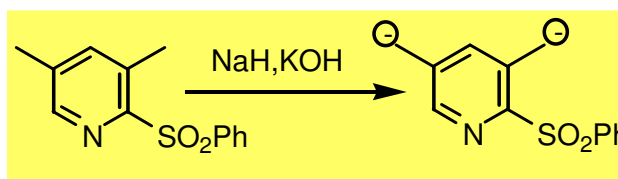
1. Direct Alkylation



2. Cyanation



3. High Acidity of 3- or 5- Alkyl Groups



Reactivity of Sulfonyl Pyridines(2)

Comparison with 2,5-Dichloropyridine

Kuraray Co.,Ltd.

