Reactivity of Pyridines and Pyridiniums

Alan R. Katritzky
Department of Chemistry,
University of Florida
Gainesville, Florida 32611

General survey of reactivity of pyridine derivatives.
Cycloaddition of pyridinium betaines.
N-vinylpyridinium cations.
Pyridinium ylids and pyridine stabilized carbanions.
Displacement reactions on pyridinium cations.
Elimination reactions dihydropyridines.
Intramolecular rearrangement of pyridinium cations.

Manufacture and Use of Pyridine and Its Derivatives

Gerald L. Goe
Reilly Tar & Chemical Corporation
1500 South Tibbs Avenue, PO Box 41076
Indianapolis, Indiana 46241

During the last quarter-century, synthetic pyridine and picolines have allowed the exploitation of pyridine derivative chemistry on a grand scale. Compounds with applications in medicinal, agricultural, and industrial chemical areas have been developed by functional group manipulation of the readily available derivatives. Continued growth is expected in the future as sophisticated techniques are used to manufacture more complex derivatives.

Synthesis and Selected Applications of Polymers Containing Pyridine Moieties

Jean M. J. Frechet,
Department of Chemistry,
University of Ottawa
Ottawa, Ontario KIN 934
Canada

The lecture will include the following: A general introduction to the application of functional polymers in organic chemistry, preparation of crosslinked polyvinylpyridines (gel resins, macroporous resins), preparation of crosslinked polymers containing pyridine moieties by chemical modification, selected applications of pyridine containing polymers in organic chemistry, and also a brief discussion of other applications of pyridine containing polymers.

Regioselective Cyanation of Pyridine-1-Oxides

Wilmer K. Fife
Department of Chemistry,
Indiana University - Purdue University at Indianapolis
Indianapolis, IN 46223

Pyridine-1-oxides are converted in essentially quantitative yield to the corresponding 2-pyridinecarbonitrile by treatment with equivalent amounts of trimethylsilanecarbonitrile and dimethylcarbamyl chloride in