

## Abstract

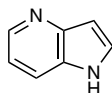
New

p 1

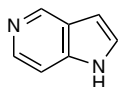
### 10.22.1 Azaindoles

*J.-Y. Mérour and B. Joseph*

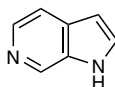
This chapter covers the synthesis and reactions of 4-azaindoles, 5-azaindoles, 6-azaindoles, and 7-azaindoles. It focuses on the literature published until mid-2014. Both classical methods and recent advances in synthetic preparations are reviewed for each isomer. Substituent modifications on the pyridine or pyrrole ring are also described.



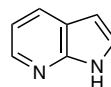
1*H*-pyrrolo[3,2-*b*]pyridine  
(4-azaindole)



1*H*-pyrrolo[3,2-*c*]pyridine  
(5-azaindole)



1*H*-pyrrolo[2,3-*c*]pyridine  
(6-azaindole)



1*H*-pyrrolo[2,3-*b*]pyridine  
(7-azaindole)

**Keywords:** azaindoles · azaindole *N*-oxides · Fischer indole synthesis · Larock heteroannulation · cyclization · halogenation · lithiation · Vilsmeier formylation · Mannich reaction · cross-coupling reactions