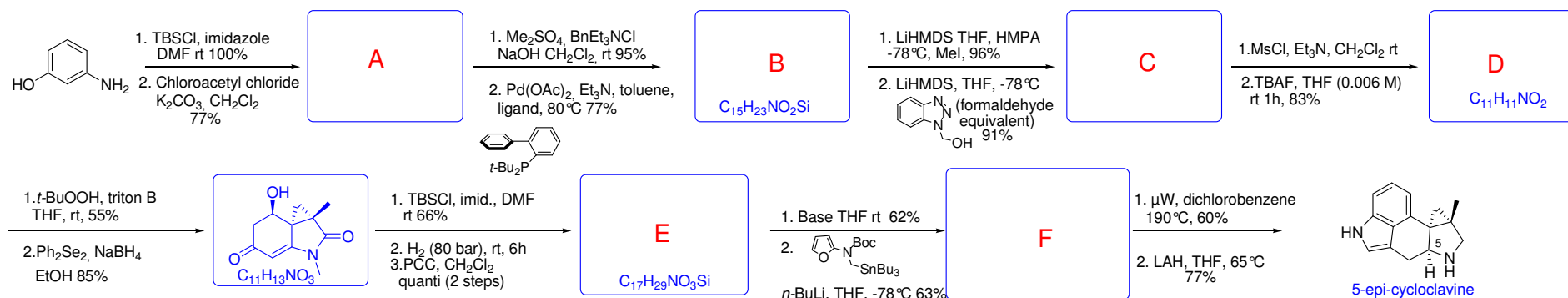


Syntheses of Cycloclavine

Cycloclavine is an ergot alkaloids which was first isolated from the African morning glory (*Ipomea hildebrandtii*) in 1969 by Hoffman and co-workers. Although no biological properties were reported, a psychotropic activity cannot be ruled out due to its structure. Here are described two approaches of the synthesis of cycloclavine. A first approach unfortunately led to the 5-epicycloclavine whereas a second more successful strategy based essentially on cycloaddition led to the (+/-) cycloclavine. Find the missing A-N intermediate structures.

1st generation synthesis: Synthesis of (+/-) 5-epi-Cycloclavine



2nd generation synthesis: Synthesis of (+/-)Cycloclavine

