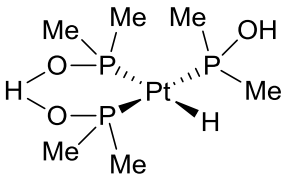
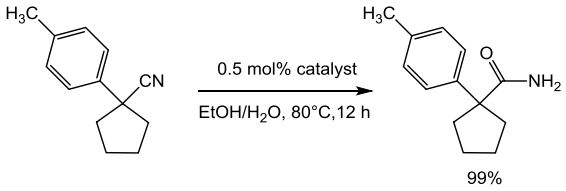
Catalog # H283157 Hydrido(dimethylphosphinous acid-kP)[hydrogen bis(dimethylphosphnito-kP]platinum (II)
Ghaffar-Parkins Catalyst

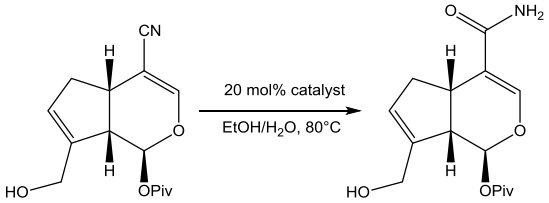


Technical Note:

1. Widely used in complex multi-step organic syntheses. This mild hydration catalyst converts hindered and acid/base sensitive nitriles to amides. The amide is released from the metal coordination sphere preventing further hydrolysis to acid. Typically, turnover frequency (TOF) ranges from 16 to 380 h-1 depending on steric factors. For optimal results avoid the presence of coordinating anions especially cyanide and halide.



Tech Note (1)
Ref. (1)



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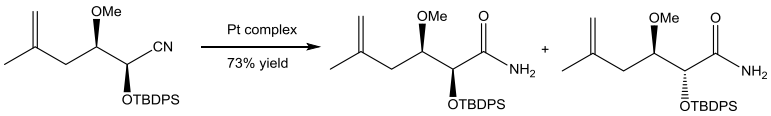
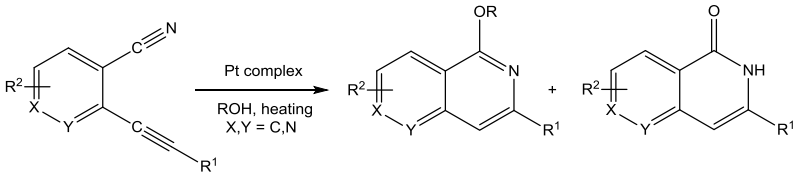


Tech Note (1)
Ref. (3)



Tech Note (1)
Ref. (4)

References:

1. *J. Org. Chem.,* **2004**, *69,* 2327.
2. *Org. Lett*., **2006**, *8,* 2643.
3. *J. Org. Chem.,* **2009**, *74,* 5405.
4. *Tetrahedron Lett.,* **2010**, *51,* 6422.
5. *Appl. Sci.,* **2015**, *5,* 380. **(catalyst review article)**