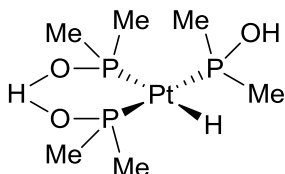
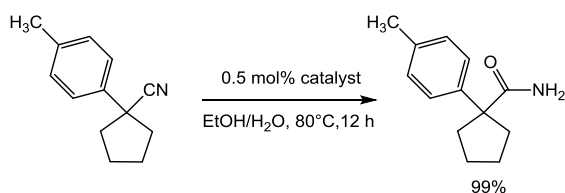


Catalog # 78-0725 Hydrido(dimethylphosphinous acid-kP)[hydrogen bis(dimethylphosphino-kP)]platinum (II)
Ghaffar-Parkins Catalyst

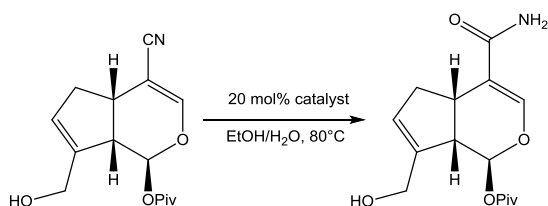


Technical Note:

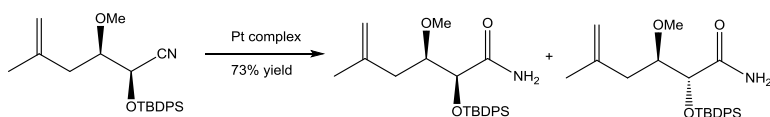
1. Widely used in complex multi-step organic syntheses. This mild hydration catalyst converts hindered and acid/base sensitive nitriles to amides. The amide is released from the metal coordination sphere preventing further hydrolysis to acid. Typically, turnover frequency (TOF) ranges from 16 to 380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



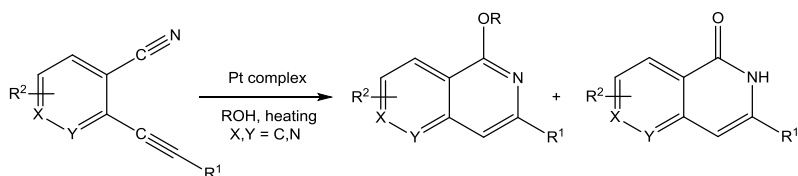
**Tech Note (1)
Ref. (1)**



**Tech Note (1)
Ref. (2)**



**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)