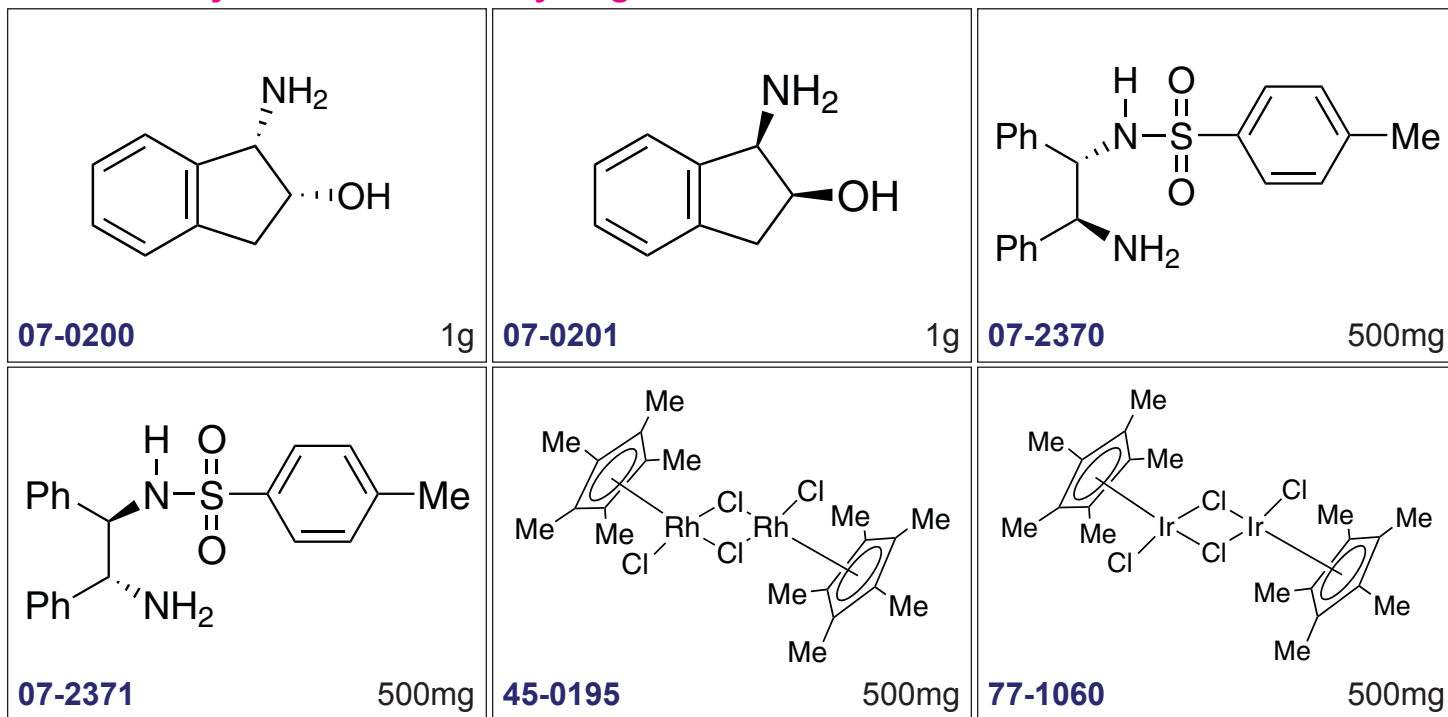


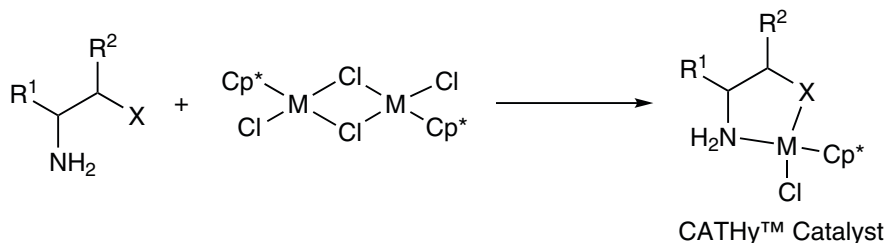
## 96-7650 CATHy™ Catalyst Kit for Asymmetric Transfer Hydrogenation of Ketones and Imines for asymmetric transfer hydrogenation of ketones and imines



CATHy™ catalysts are highly efficient for the asymmetric transfer hydrogenation of a broad range of ketones and imines to chiral alcohols and amines. The catalysts are prepared in-situ by combining a chiral bidentate nitrogen ligand with a Rh(III) or Ir(III) metal complex containing a substituted cyclopentadienyl ligand.

07-0200	(1S,2R)-(-)-cis-1-Aminoindan-2-ol, 98% (126456-43-7)	1g
07-0201	(1R,2S)-(+)-cis-1-Aminoindan-2-ol, 98% (136030-00-7)	1g
07-2370	(1S,2S)-(+)-N-(4-toluenesulfonyl)-1,2-diphenylethylenediamine, 98% (S,S)-TsDPEN (167316-27-0)	500mg
07-2371	(1R,2R)-(-)-N-(4-toluenesulfonyl)-1,2-diphenylethylenediamine, 98% (R,R)-TsDPEN (144222-34-4)	500mg
45-0195	Dichloro(pentamethylcyclopentadienyl)rhodium(III) dimer, 99% (12354-85-7)	500mg
77-1060	Dichloro(pentamethylcyclopentadienyl)iridium(III) dimer, 98% (12354-84-6)	500mg

### Catalyst Preparation



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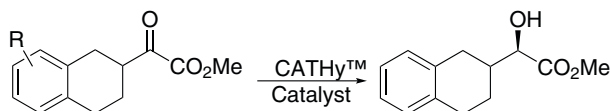
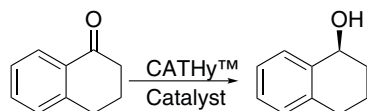
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### Key benefits of this technology include:

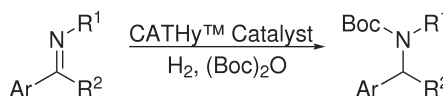
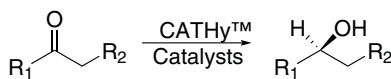
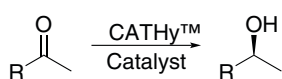
- solvent as the hydrogen source, avoiding high pressures associated with standard asymmetric hydrogenations
- safer handling procedures
- functional group tolerance
- simple synthesis and modular metal precursor-chiral bidentate ligand match to tailor catalyst to application
- robust stability to air and moisture
- proven at large scale

#### Technical Notes:

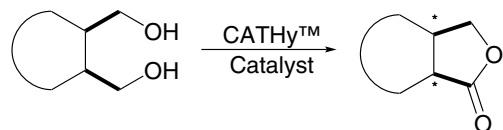
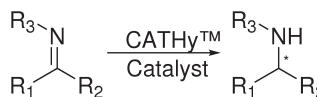
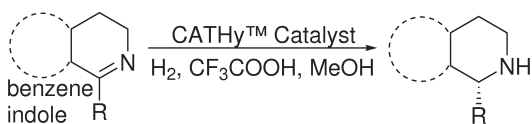
1. Catalyst for asymmetric ketone reduction in organic and aqueous media
2. Catalyst for asymmetric imine reduction in organic and aqueous media
3. Catalyst for asymmetric oxidative lactonizations of meso-diols
4. Catalyst for asymmetric transfer hydrogenation of quinolines



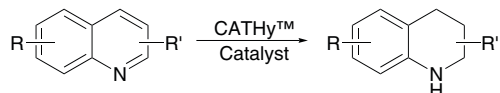
Tech. Note (1)  
Ref. (1-7)



Tech. Note (2)  
Ref. (1, 8-10)



Tech. Note (3)  
Ref. (11)



Tech. Note (4)  
Ref. (12-13)

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