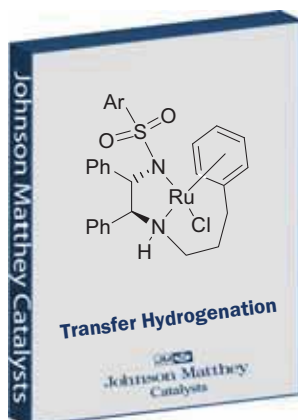




Transfer Hydrogenation Kit

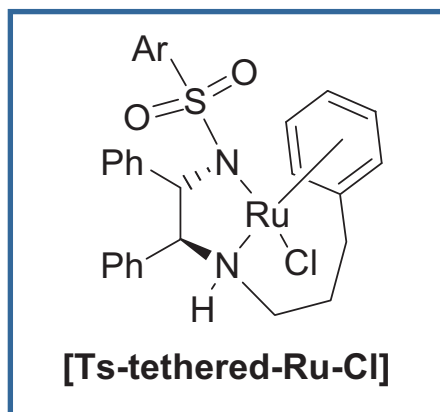


Asymmetric transfer hydrogenation of prochiral ketones and imines is a powerful methodology for the preparation of chiral alcohols and amines in high enantiomeric purity.

NEW!

Kit includes the following catalysts:

Compound*	Catalog ID	Quantity
[(R,R)-TsDpen-Ru(p-cymene)Cl]	C1-000	500 mg
[(S,S)-TsDpen-Ru(p-cymene)Cl]	C1-010	500 mg
[(R,R)-MsDpen-Ru(p-cymene)Cl]	C1-001	500 mg
[(S,S)-MsDpen-Ru(p-cymene)Cl]	C1-011	500 mg
[(R,R)-TsDACH-RuCl (p-cymene)]	C1-100	500 mg
[(S,S)-TsDACH-RuCl (p-cymene)]	C1-110	500 mg
[(R,R)-teth-TsDpen-RuCl]	C1-300	250 mg
[(S,S)-teth-TsDpen RuCl]	C1-310	250 mg



The research group of Prof. Martin Wills has recently developed new ‘tethered’ catalysts where the covalent linkage from the diamine to the n⁶-arene unit provides additional stability and a significant increase in the reaction rate relative to ‘untethered’ analogues.

Johnson Matthey has successfully scaled up these catalysts during our R&D program.

References: Wills et al. *J.Am.Chem.Soc.* **2005**, 127, 7318 ; Wills et al. *Organic Letters* **2007**, 9 , 4659; Wills et al *Organic Letters* **2009**, 11, 847