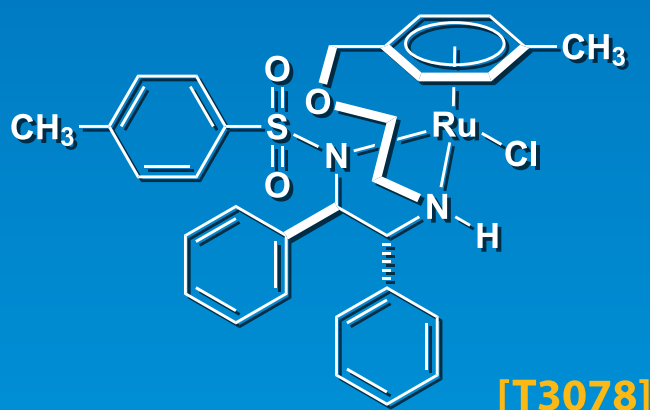


New

TCI

钌复合物催化剂

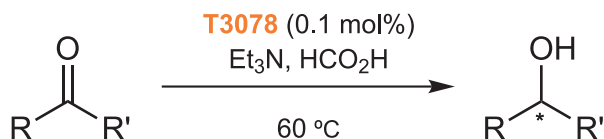
——用于酮不对称转移氢化

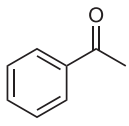
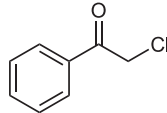
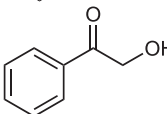
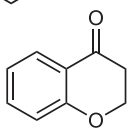
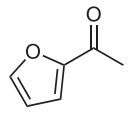


优势

- 选择性的还原羰基
- 以甲酸或异丙醇为氢源时，无需高压设备

反应举例



Substrate	Time (h)	% Yield	% ee
	3	>99	98 (R)
	5	>99	97 (S)
	5	98	96 (S)
	5	>99	>99 (R)
	5	>99	98 (R)

T. Ikariya et al., *J. Am. Chem. Soc.* **2011**, 133, 14960.

T3077 (S,S)-Ts-DENEB®

200mg / 1g

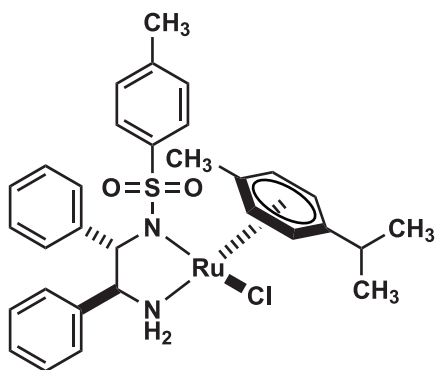
T3078 (R,R)-Ts-DENEB®

200mg / 1g

这些产品是在与TAKASAGO INTERNATIONAL CORPORATION公司技术协作下完成商品化的。
DENEB®是TAKASAGO INTERNATIONAL CORPORATION公司的注册商标。

钌复合物催化剂—用于酮不对称转移氢化

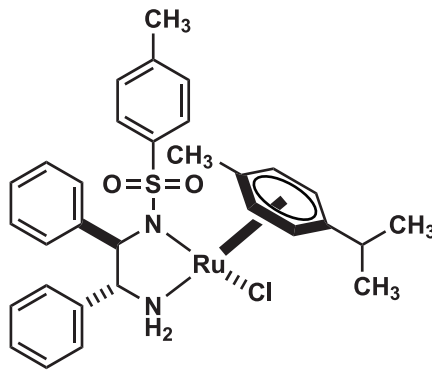
其他钌复合物催化剂



RuCl[(S,S)-Tsdpen](p-cymene)

200mg / 1g

[R0124]

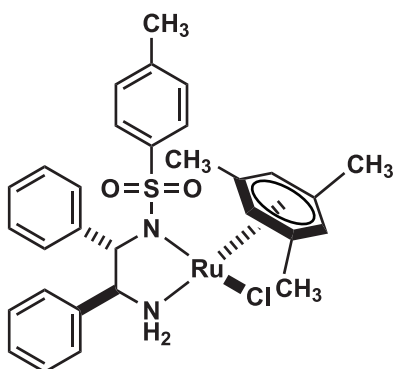


RuCl[(R,R)-Tsdpen](p-cymene)

200mg / 1g

[R0125]

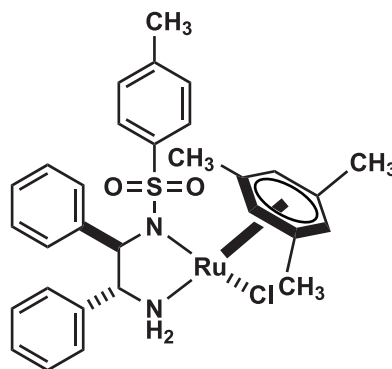
R. Noyori et al., *J. Am. Chem. Soc.* **1996**, 118, 2521; K. Matsumura et al., *J. Am. Chem. Soc.* **1997**, 119, 8738; R. Noyori et al., *J. Am. Chem. Soc.* **1996**, 118, 4916.



RuCl[(S,S)-Tsdpen](mesitylene)

200mg / 1g

[R0126]

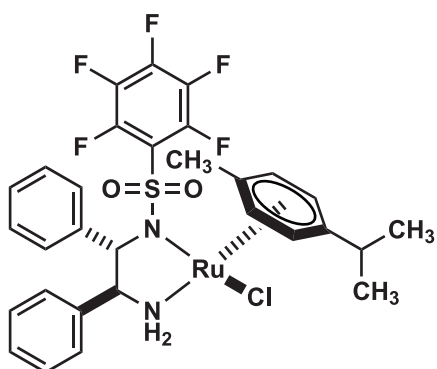


RuCl[(R,R)-Tsdpen](mesitylene)

200mg / 1g

[R0127]

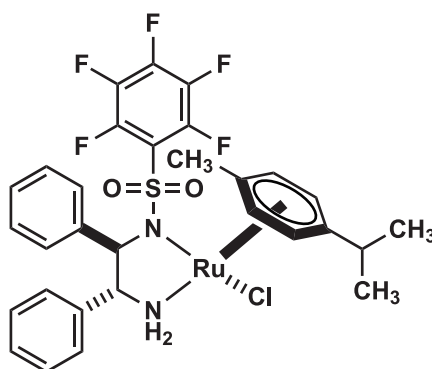
R. Noyori et al., *J. Am. Chem. Soc.* **1996**, 118, 2521; R. Noyori et al., *Org. Lett.* **2000**, 2, 3425.



RuCl[(S,S)-Fsdpen](p-cymene)

200mg / 1g

[R0122]



RuCl[(R,R)-Fsdpen](p-cymene)

200mg / 1g

[R0123]

J. Limanto et al., *Org. Lett.* **2010**, 12, 512.

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