## Strem Chemicals, Inc.

## www.strem.com

Catalog # 44-0519 Dimethylammonium dichlorotri(µ-chloro)bis[(S)-(-)-5,5'-bis(diphenylphosphino)-4,4'-bi-1,3-benzodioxole] diruthenate(II)

Note: Sold in collaboration with Takasago. Takasago SEGPHOS Catalyst Kit component.

## **Technical Notes:**

- 1. Highly enantioselective, highly active catalyst for hydrogenation of functionalized ketones. The chlororuthenate salts show catalytic activity at relatively low temperature. See <u>15-0136</u>.
- 2. Catalyst for enantioselective hydrogenation of enamines.

Ph OEt Ru, H<sub>2</sub>
Ph OEt Tech. Note (1)
Ref. (1)

$$Ar \underset{H}{\bigvee} R$$

$$Ru, H_{2}$$

$$Ar \underset{H}{\bigvee} R$$

$$Ru, H_{2}$$

$$Ar \underset{H}{\bigvee} R$$

$$Ref. (2)$$

## References:

- 1. Adv. Synth. Catal., 2001, 343, 264.
- 2. U.S. Pat. 8188307.