## **Strem Chemicals, Inc**

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Catalog # 44-0944 Benzylidene-bis(tricyclohexylphosphine)dichlororuthenium, min. 97% [Grubbs Catalyst Gen. 1]



For Grubbs' olefin metathesis catalyst article see Accounts of Chemical Research 2001, 34, 1, 18-29.

**Technical Notes:** 

- 1. N-Heterocyclic carbene and phosphine ruthenium indenylidene precatalysts: A comparative study in olefin metathesis.
- 2. Ruthenium(IV) alkylidenes as precatalysts for direct arylations of alkenes with aryl chlorides and an application to sequential catalysis.
- 3. Synthesis of high molecular weight comb block copolymers and their assembly into ordered morphologies in the solid state.
- 4. Autonomic healing of epoxy vinyl esters via ring opening metathesis polymerization.
- 5. Amide synthesis from alcohols and amines catalyzed by ruthenium N-heterocyclic carbene complexes.
- 6. Stereoselective synthesis of E,Z-configured 1,3-dienes by ring-closing metathesis. Application to the total synthesis of lactimidomycin.
- 7. A highly efficient olefin metathesis process for the synthesis of terminal alkenes from fatty acid esters.
- 8. Long-Spaced aliphatic polyesters.
- 9. Enaminones via ruthenium-catalyzed coupling of thioamides and α-diazocarbonyl compounds.
- 10. Stereoselective synthesis of macrocyclic peptides via a dual olefin metathesis and ethenolysis approach.
- 11. Synthesis and characterization of precisely-defined ethylene-co-aryl ether polymers via ADMET polymerization.
- 12. Regio- and stereoselective dehydrogenative silulation and hydrosilulation of vinularenes catalyzed by ruthenium alkylidenes.







## References:

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- 2. Angew. Chem. Int. Ed., 2007, 46, 6364.
- 3. J. Am. Chem. Soc., 2007, 129, 10551.
- 4. Adv. Funct. Mater., 2008, 18, 44.
- 5. Chem. Eur. J., **2010**, *16*, 6820.
- 6. J. Am. Chem. Soc., 2011, 133, 9232.
- 7. Top. Catal., 2012, 55, 518.
- 8. Macromolecules, 2013, 46, 7213.
- 9. J. Org. Chem., 2014, 79, 7405.
- 10. Chem. Sci., 2015, 6, 4561.
- 11. Polymer, **2015**, 64, 76.
- 12. Org. Lett., 2016, 18, 5324.