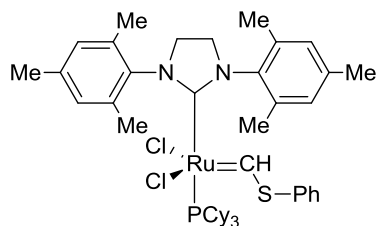


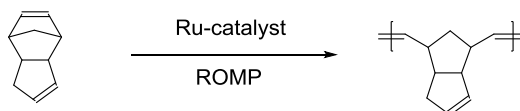
Catalog # 44-7780 Tricyclohexylphosphine[1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene][(phenylthio)methylene]ruthenium(II) dichloride



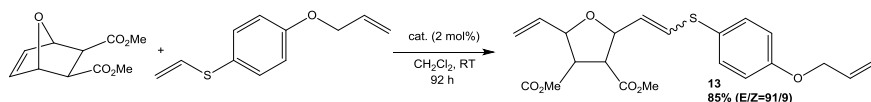
Note: Sold in collaboration with Ciba Specialty Chemicals for research purposes only. Patents US 6,407,190 and EP 993,465.

Technical Notes:

1. Metathesis catalyst, stable in air and can be used in aqueous media.
2. Catalyst of choice for the ring-opening metathesis polymerization of cycloolefins.
3. Catalyst concentration 2-3 times lower than comparable phenyl and vinyl substituted ruthenium carbenes.
4. Excellent initiator for solvent-free polymerization and control of initiation rates and gelation times.
5. Highly selective catalyst for the ring opening/cross-metathesis of norbornene derivatives.



Tech. Note (2)
Ref. (2)



Tech. Note (5)
Ref. (3)

References:

1. *J. Org. Chem.*, **2000**, 606, 65.
2. "Ring Opening Metathesis Polymerization of Related Chemistry", NATO Science Series II, **2002**, 23.
3. *Organometallics*, **2003**, 22, 586.