

Grubbs I

CAS 172222-30-9

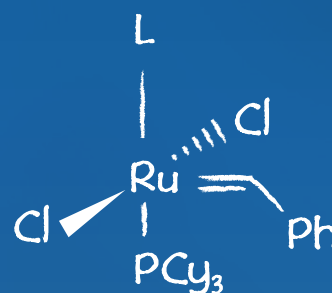
Grubbs II*

CAS 246047-72-3

Grubbs I and Grubbs II are traditionally employed in olefin metathesis, including ring closing and ring opening reactions. This type of reactions has found use in various settings, from polymer to pharmaceutical industry. Grubbs II has certain advantages over Grubbs I, being more stable and easier to handle.

Literature References

1. *Ring-Closing Metathesis on Commercial Scale: Synthesis of HCV Protease Inhibitor Simeprevir*. A. Horváth, D. Depré, W. A. A. Vermeulen, S. L. Wuyts, S. R. Harutyunyan, G. Binot, J. Cuypers, W. Couck, and D. Van Den Heuvel, *J. Org. Chem.* **2019**, *84*, 4932-4939.
2. *Ring Closing Synthesis of Macrocyclic MCL-1 Inhibitor Intermediates*. Amgen Inc. A. G. Smith, J. S. Tedrow et al, WO2021226168.
3. *Long-chain α - ω diols from renewable fatty acids via tandem olefin metathesis – ester hydrogenation*. A. Gonzalez-de-Castro, E. Cosimi, M. J. B. Aguila, P. Gajewski, M. Schmitkamp, J. G. de Vriese and L. Lefort, *Green Chem.*, **2017**, *19*, 1678-1684.
4. *Olefin Metathesis at the Dawn of Implementation in Pharmaceutical and Specialty Chemicals Manufacturing*. Carolyn S. Higman, Justin A. M. Lummiss and Deryn E. Fogg, *Angew. Chem. Int. Ed.* **2016**, *55*, 3552-3565.

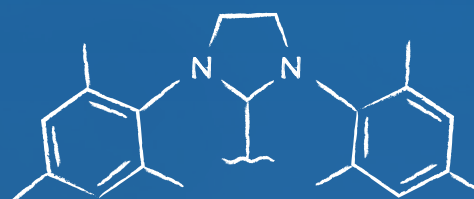


Grubbs I:

L = PCy₃

Grubbs II:

L =



Catalyst	Purity (%)	Appearance	General stock level (kg)	Lead time for stock quantities (weeks)	Lead time for larger single kg quantities (weeks)
Grubbs I	97	Purple or violet powder	1-5	2	5-6
Grubbs II	97	Dark red to dark brown powder	1-5	2	8

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