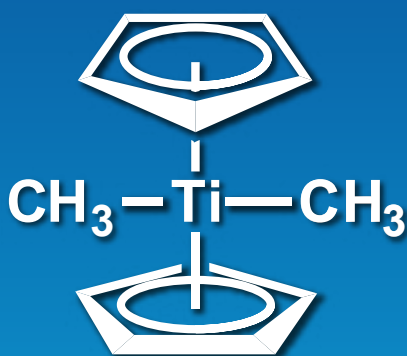


Mild Methylenation Reagent of Carbonyl Compounds (Petasis Reagent)



[D4100]

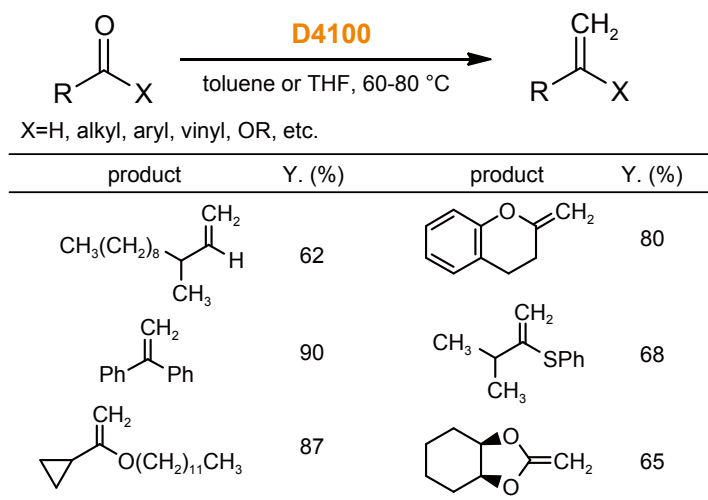
Advantages

- Applicable to Various Carbonyl Compounds
- More Air-Stable and Milder Reagent than Tebbe Reagent

Dimethyltitanocene (D4100) is a useful methylenation reagent named the Petasis reagent.

Mild thermolysis of D4100 (>60 °C) can generate a reactive titanocene methylidene species, which in situ converts a variety of carbonyl compounds, such as aldehydes, ketones, esters, and lactones, to the corresponding olefins.

D4100 is more air-stable than the Tebbe reagent, and the reaction proceeds under mild conditions because it does not have the highly acidic aluminum moiety.



N. A. Petasis, S.-P. Lu, E. I. Bzowej, D.-K. Fu, J. P. Staszewski, I. Akritopoulou-Zanze, M. A. Patane, Y.-H. Hu, *Pure Appl. Chem.* **1996**, 68, 667.

D4100 Petasis Reagent (5% in Tetrahydrofuran/Toluene)

100g

Related Product C1411 Tebbe Reagent (ca. 0.5mol/L in Toluene)

25mL

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