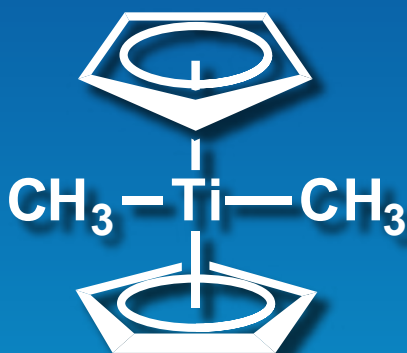


Mild Methylenation Reagent of Carbonyl Compounds (Petasis Reagent)



Petasis Reagent
(5% in Tetrahydrofuran/Toluene)
25g / 100g
[D4100]

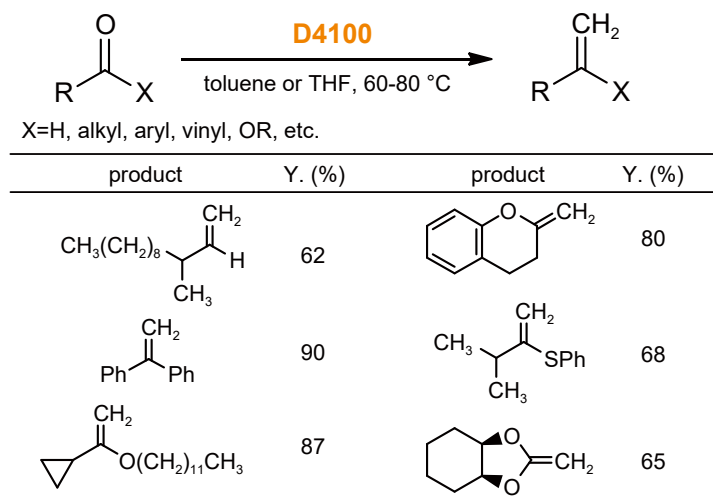
Advantages

- 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.



Reference N. A. Petasis, Y.-H. Hu, et al., *Pure Appl. Chem.* **1996**, 68, 667. <https://doi.org/10.1351/pac199668030667>

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

25mL **[C1411]**

For further information please refer to our website at www.TCIchemicals.com. ▶▶▶ TCI olefination

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