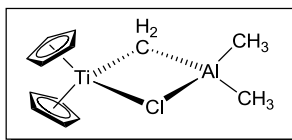
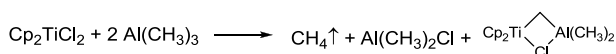


## Tebbe reagent

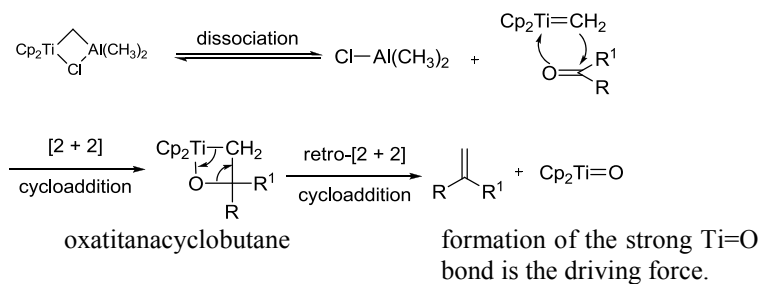
The Tebbe reagent,  $\mu$ -chlorobis(cyclopentadienyl)(dimethylaluminium)- $\mu$ -methylene-titanium, transforms a carbonyl compound to the corresponding *exo*-olefin.



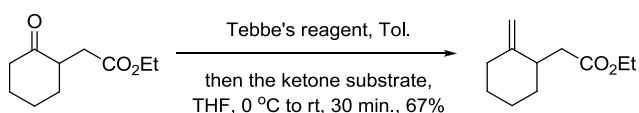
Preparation:<sup>2,6</sup>



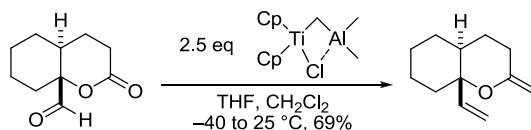
Mechanism:<sup>3</sup>

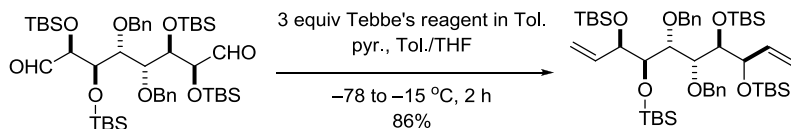
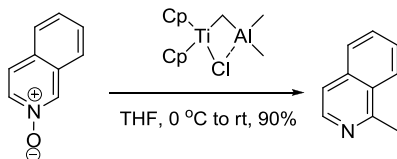
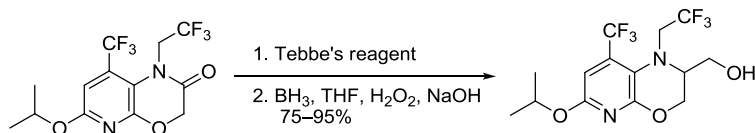


Example 1, Ketone<sup>2</sup>



Example 2, Double Tebbe<sup>4</sup>



Example 3, Double Tebbe<sup>5</sup>Example 4, *N*-Oxide<sup>6</sup>Example 5, Amide<sup>11</sup>

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