

**M.Sc. Semester-IV  
Core Course-9 (CC-9)  
Synthetic Organic Chemistry**



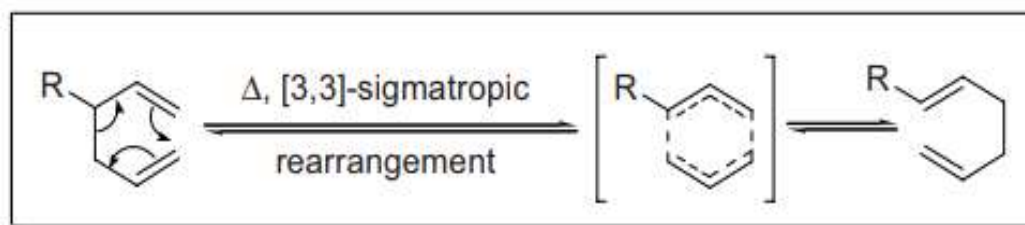
**II. Pericyclic Reactions  
15. Cope Rearrangement**



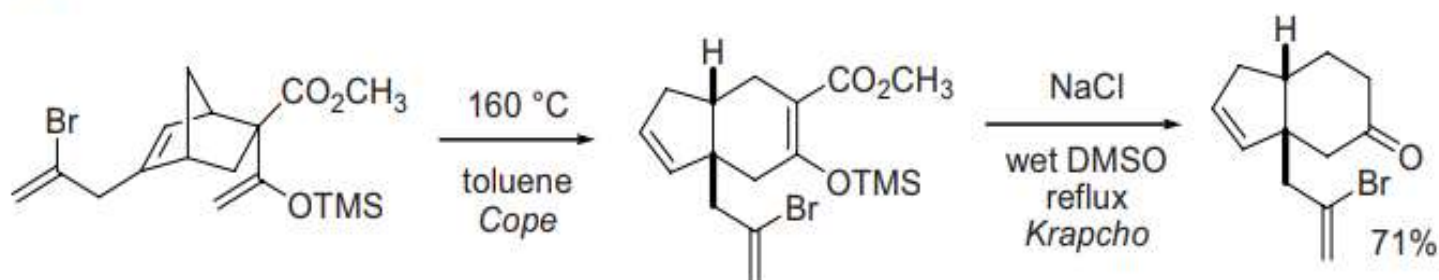
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## Cope rearrangement

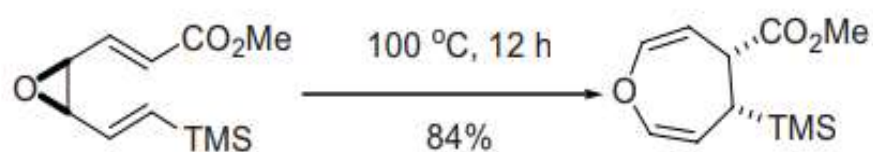
The Cope, oxy-Cope, and anionic oxy-Cope rearrangements belong to the category of *[3,3]-sigmatropic rearrangements*. Since it is a concerted process, the arrow pushing here is only illustrative. This reaction is an equilibrium process. Cf. Claisen rearrangement.



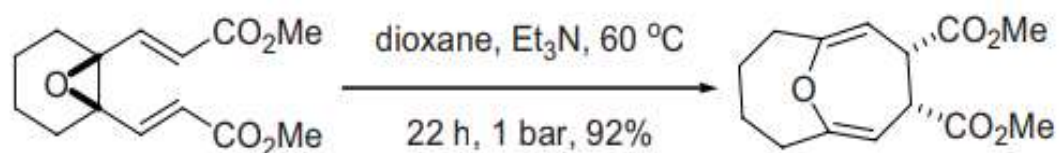
### Example 1<sup>4</sup>



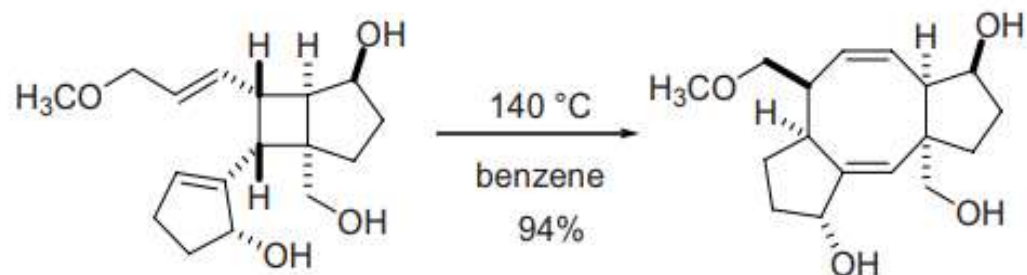
### Example 2<sup>6</sup>



### Example 3<sup>9</sup>



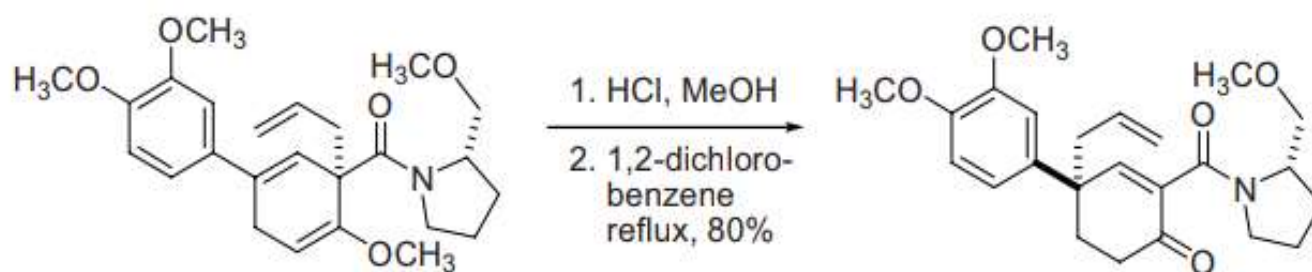
### Example 4<sup>10</sup>



### Example 5<sup>11</sup>



### Example 6<sup>12</sup>



### References

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