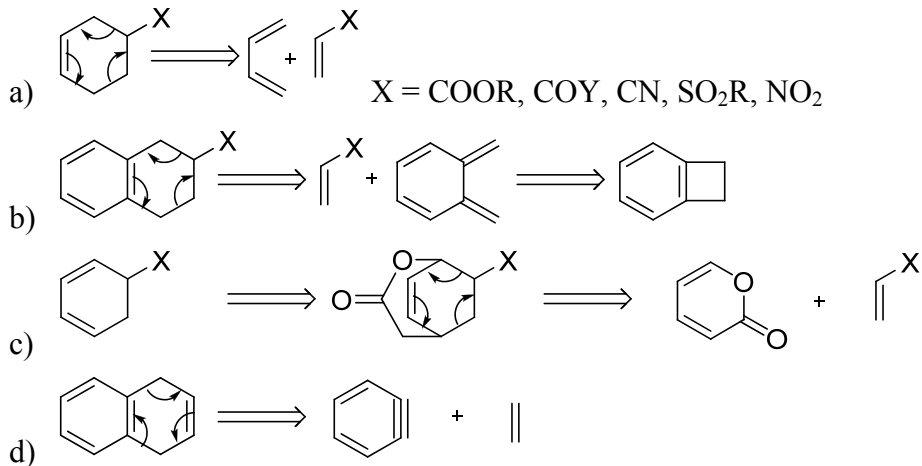


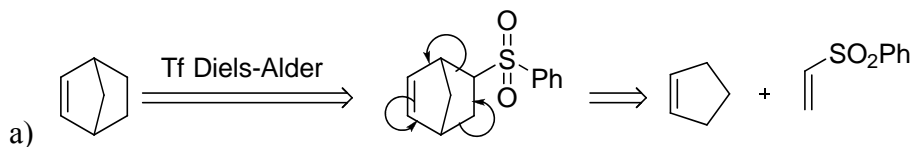
Лекция 15.

Ретрон

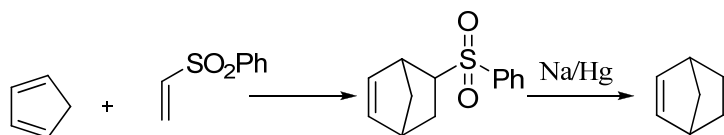
1. Трансформ Дильса-Альдера.



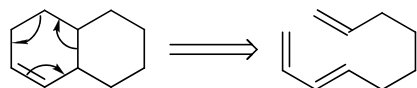
Синтез производных циклогексана, не содержащих электроноакцепторных групп



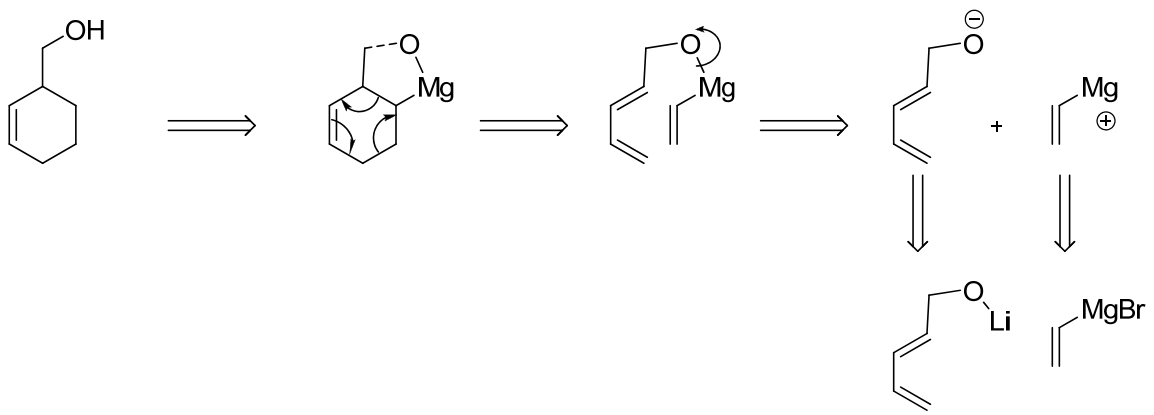
Синтез.



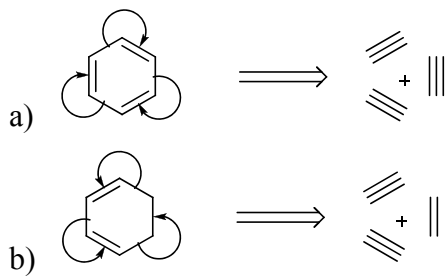
b) Внутримолекулярная реакция Дильса-Альдера



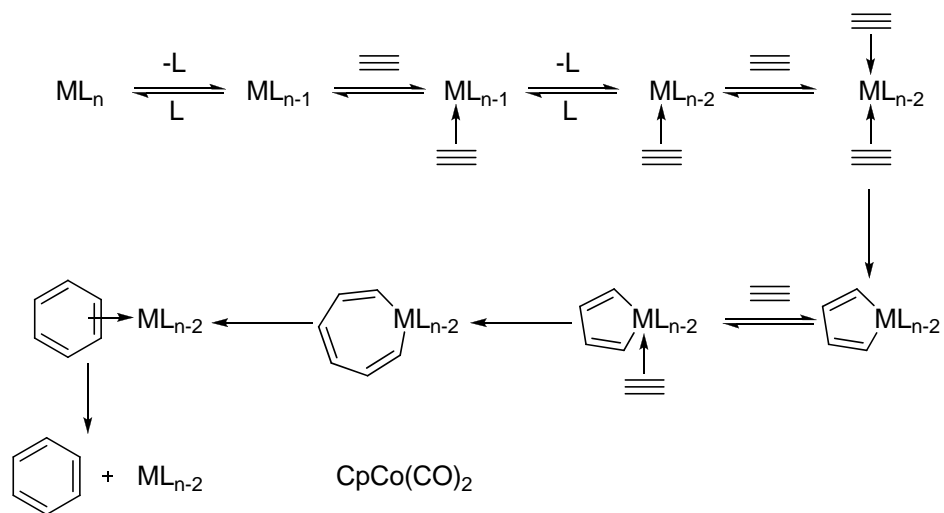
c) Временный мостик между диеном и диенофилом



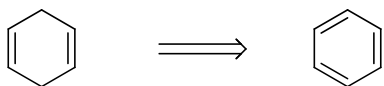
2. Трансформ [2+2+2] циклоприсоединения.



Механизм реакции.

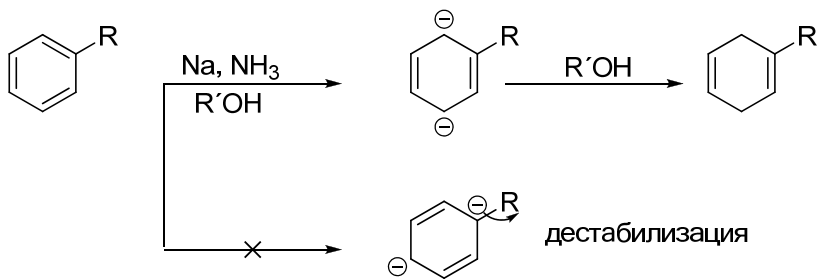


3. Трансформ Берча.

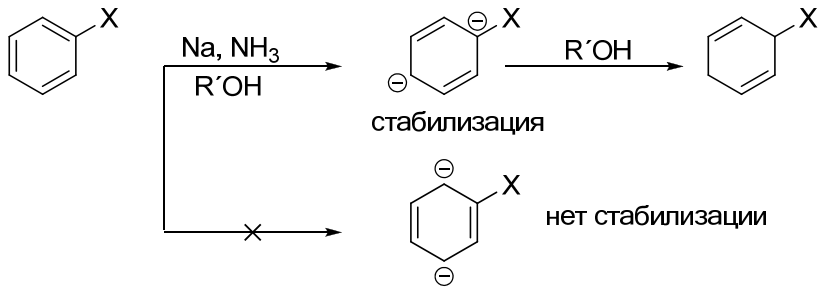


Реакция Берча.

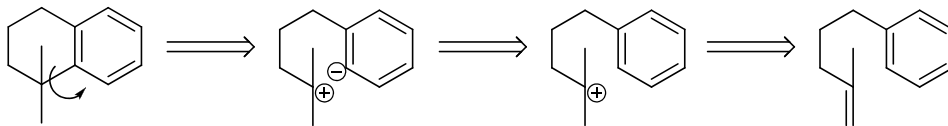
R – электронодонорный заместитель:



X – электроноакцепторный заместитель:

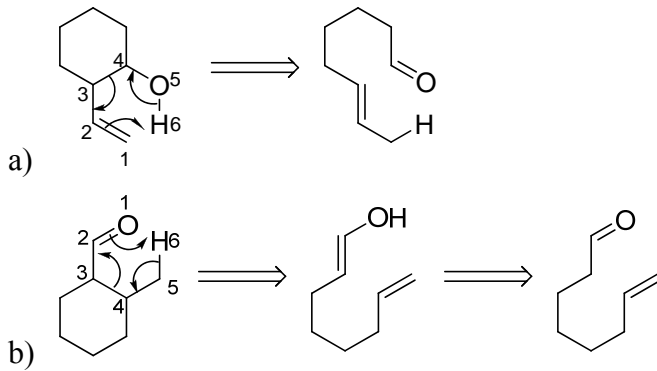


4. Трансформ алкилирования.



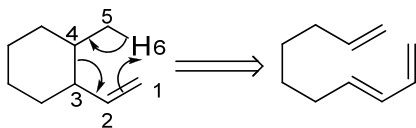
5. Трансформ оксиеновой реакции (Кониа-Альдера).

Conia, J. M., Le Perchec, P. Synthesis 1975, 1-19.

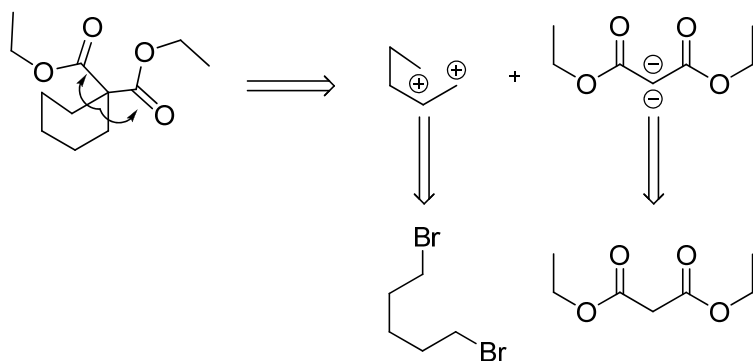


6. Трансформ еновой реакции (Альдера).

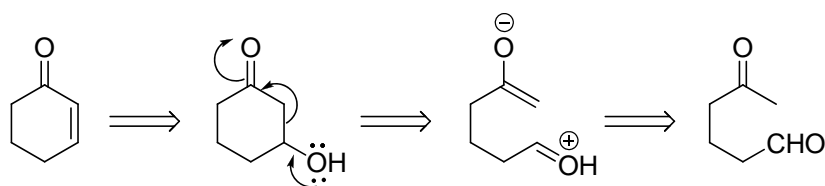
Kurt Alder et al. Ber. 1943, 76, 27.



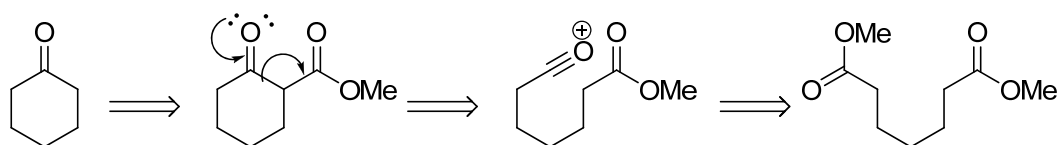
7. Трансформ алкилирования.



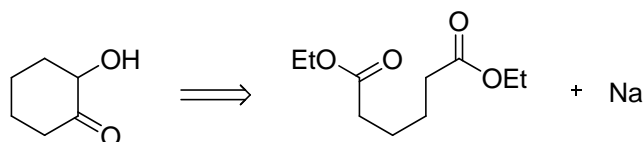
8. Трансформ альдольно-кетоновой конденсации.



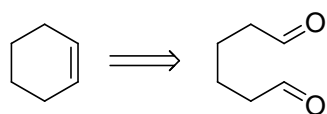
9. Трансформ Дикмана.



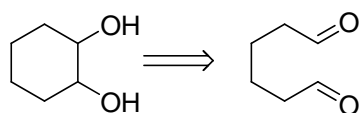
10. Трансформ ацилоиновой конденсации.



11. Трансформ Мак Мурри.



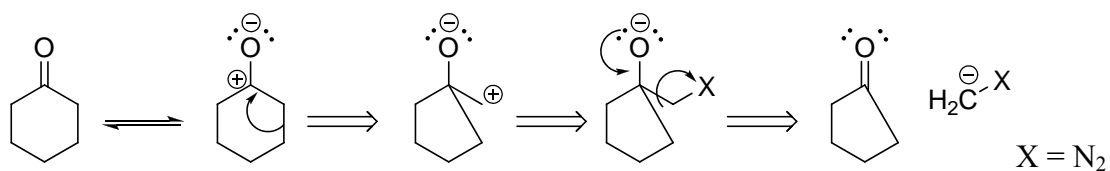
12. Трансформ пинаколиновая конденсация.



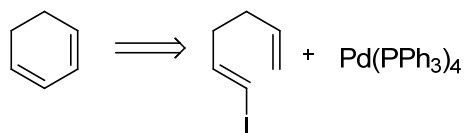
13. Трансформ метатезиса.



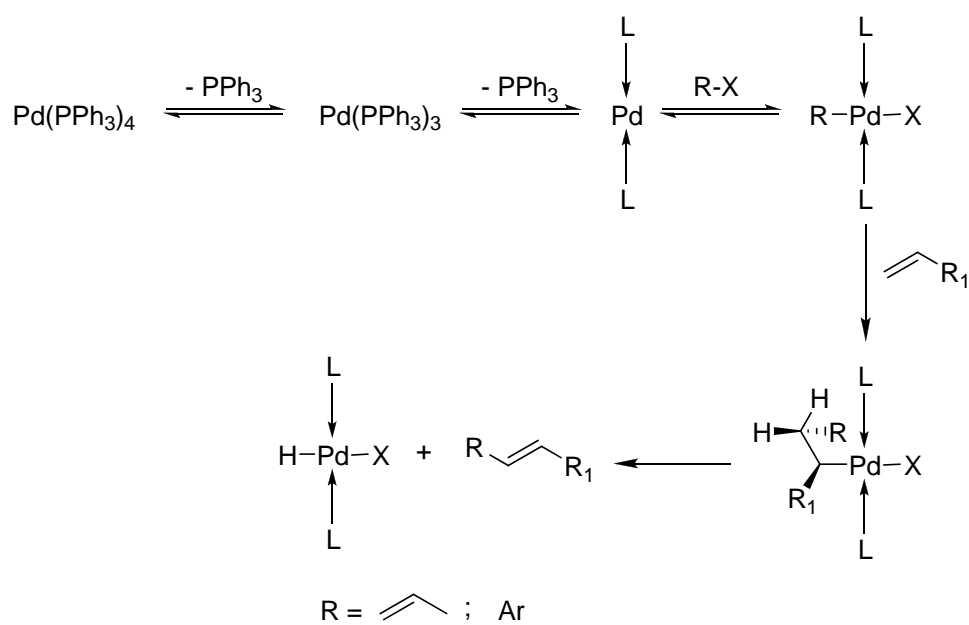
14. Трансформ расширения цикла.



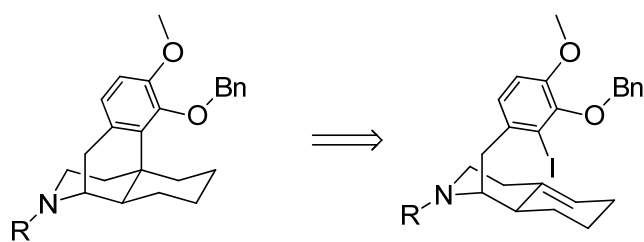
15. Трансформ Хека.



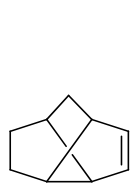
Реакция Хека.



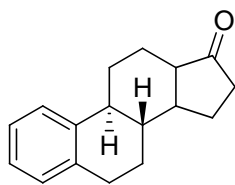
Пример



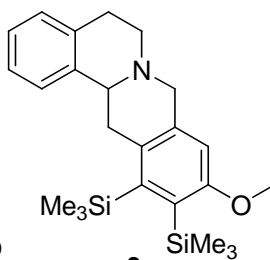
Задачи



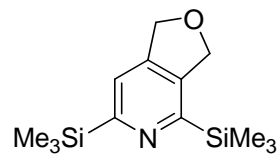
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2



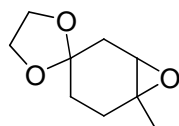
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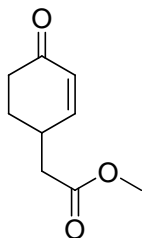
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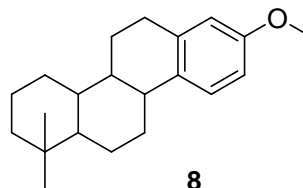
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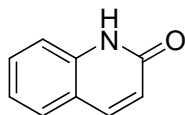
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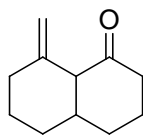
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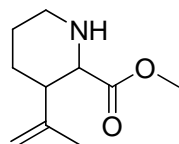
8



9



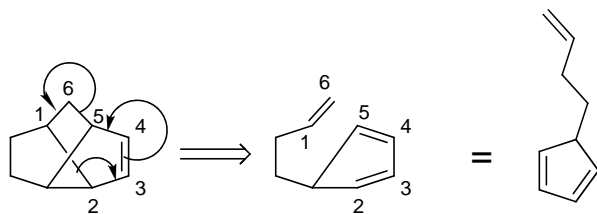
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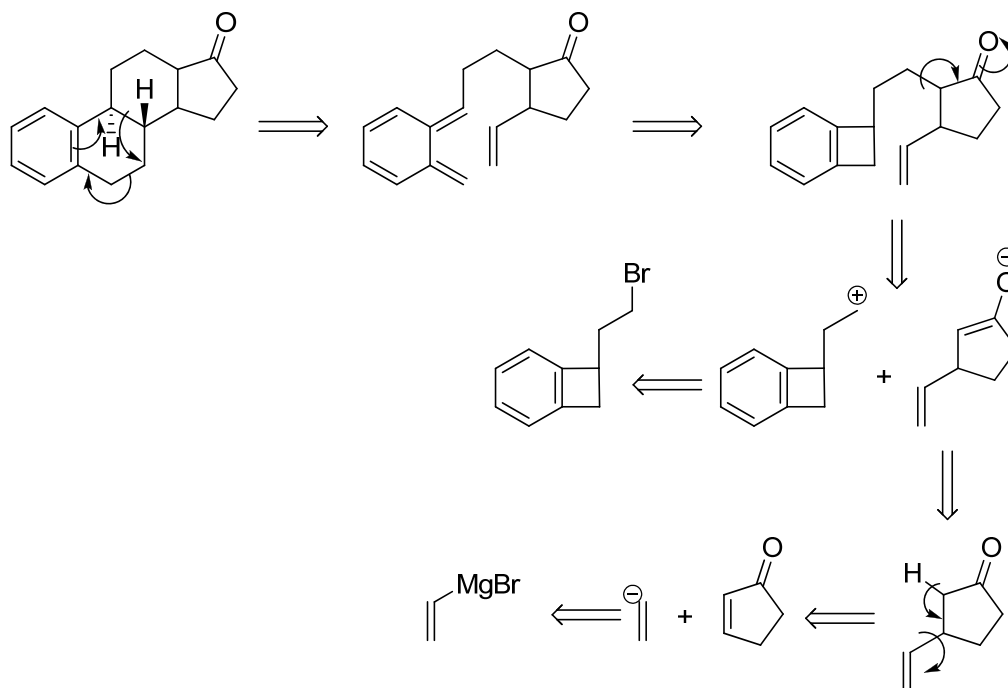
11

Ответы

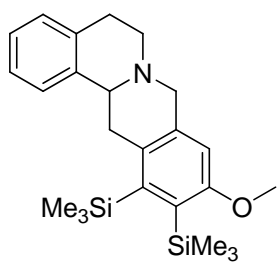
1.



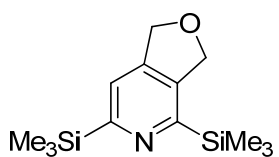
2.



3.



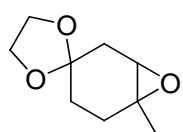
4.



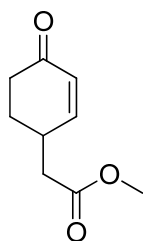
5.



6.



7.



8.

