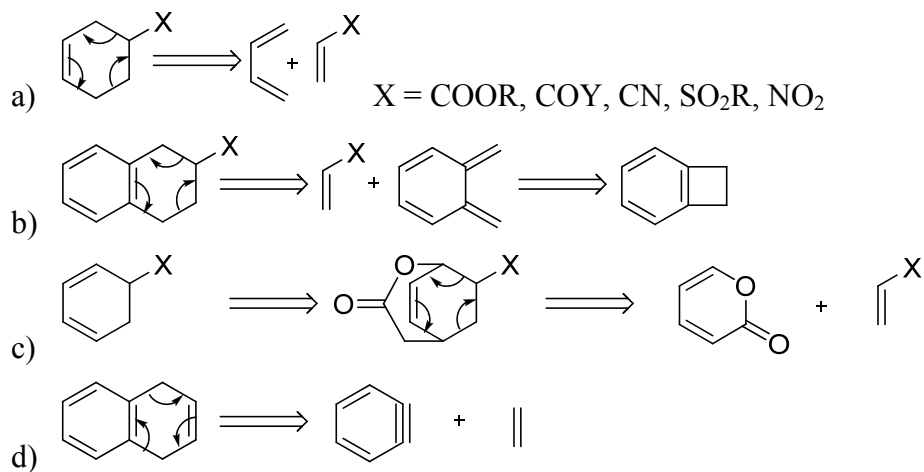


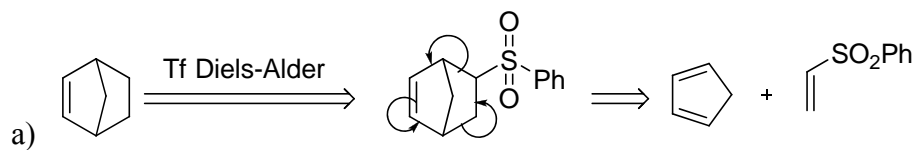
Лекция 15.

Ретрон 

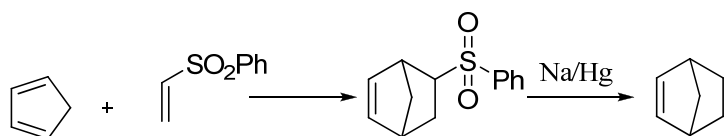
1. Трансформ Дильса-Альдера.



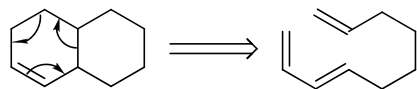
Синтез производных циклогексана, не содержащих электроноакцепторных групп



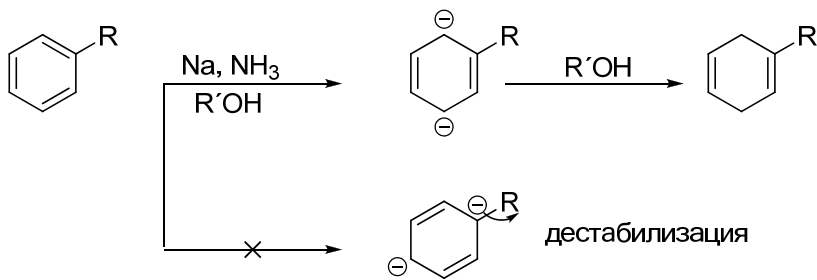
Синтез.



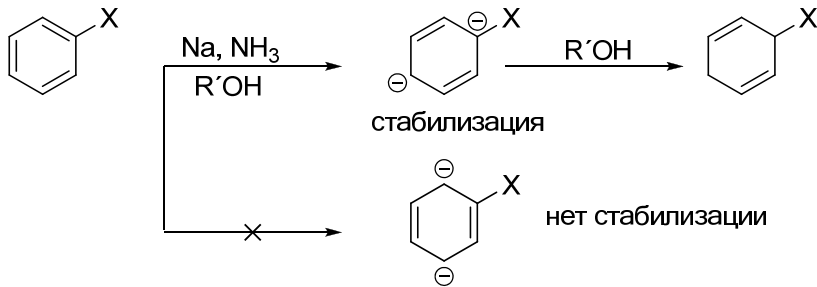
b) Внутримолекулярная реакция Дильса-Альдера



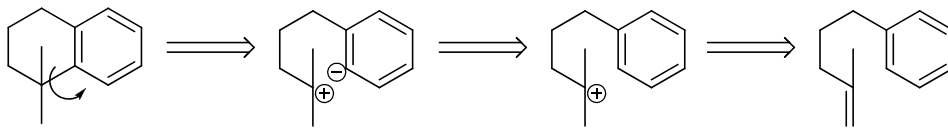
c) Временный мостик между диеном и диенофилом



X – электроноакцепторный заместитель:

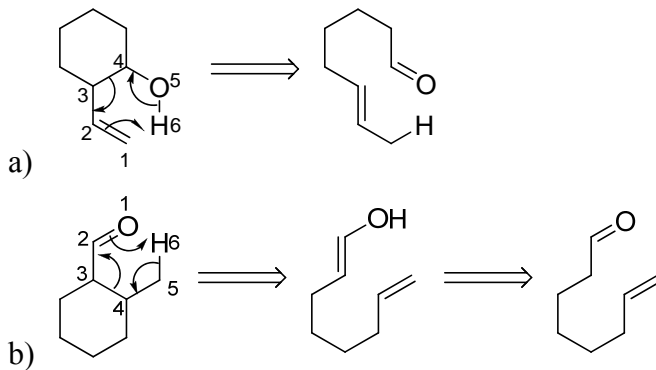


4. Трансформ алкилирование.



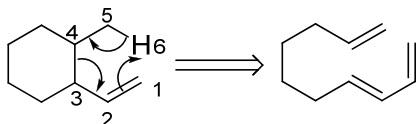
5. Трансформ оксиеновой реакции (Кони-Альдера).

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

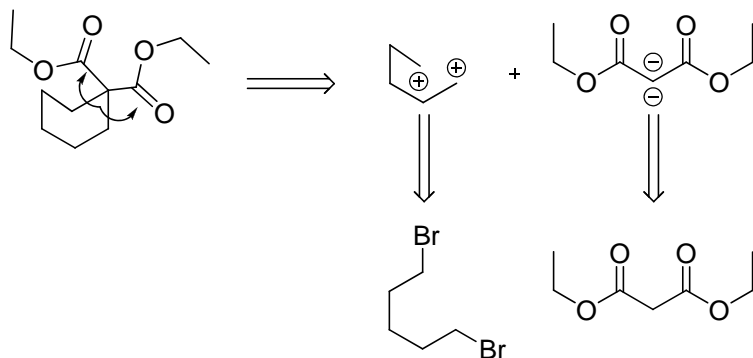


6. Трансформ еновой реакции (Альдера).

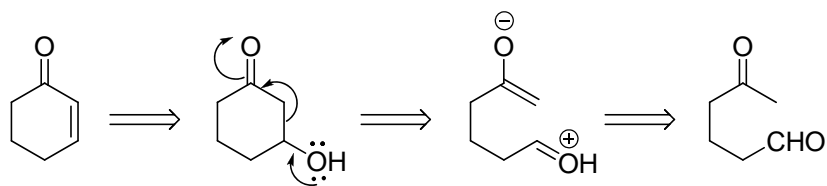
Kurt Alder et al. Ber. 1943, 76, 27.



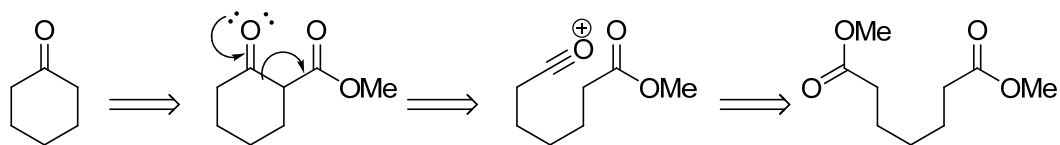
7. Трансформ алкилирования.



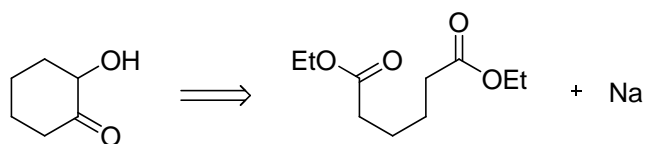
8. Трансформ альдольно-кетоновой конденсации.



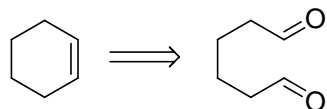
9. Трансформ Дикмана.



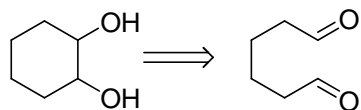
10. Трансформ ацилоиновой конденсации.



11. Трансформ Мак Мурри.



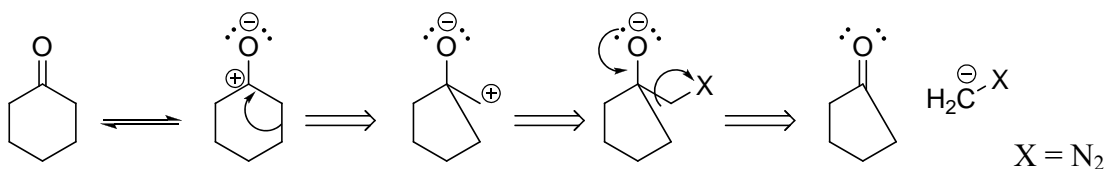
12. Трансформ пинаколиновая конденсация.



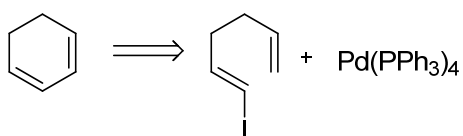
13. Трансформ метатезиса.



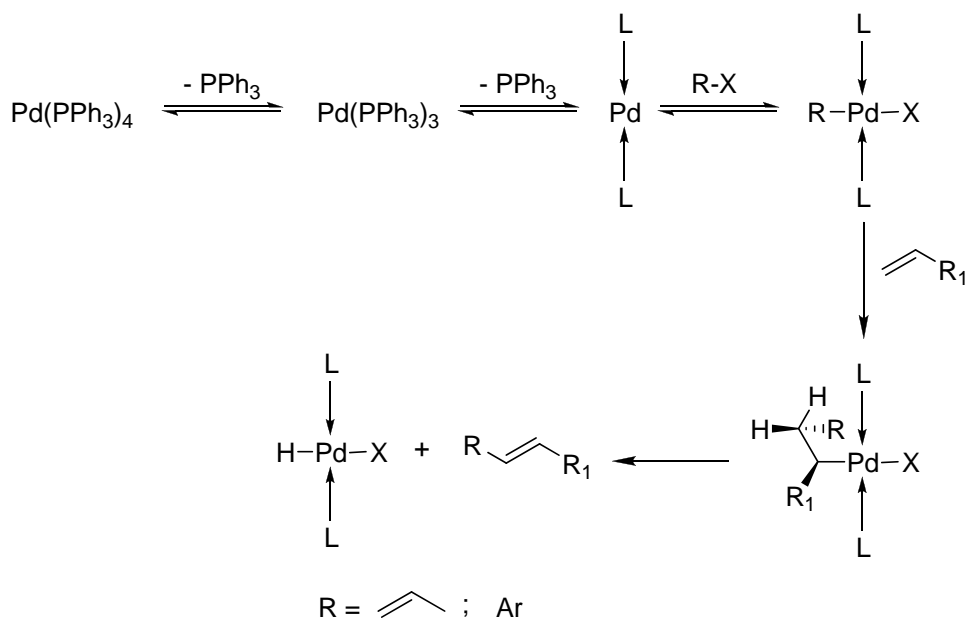
14. Трансформ расширения цикла.



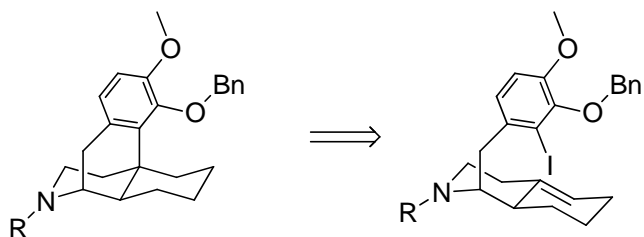
15. Трансформ Хека.



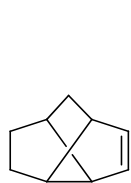
Реакция Хека.



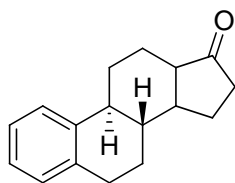
Пример



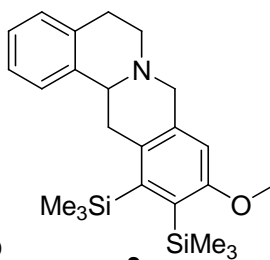
Задачи



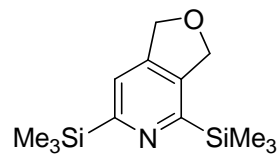
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2



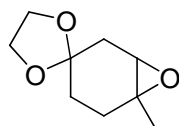
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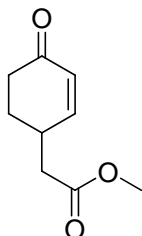
4



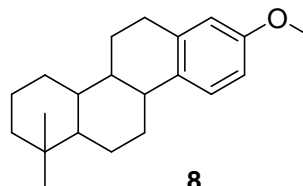
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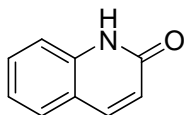
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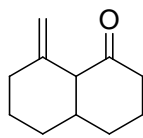
7



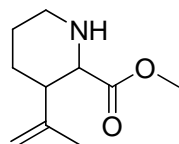
8



9



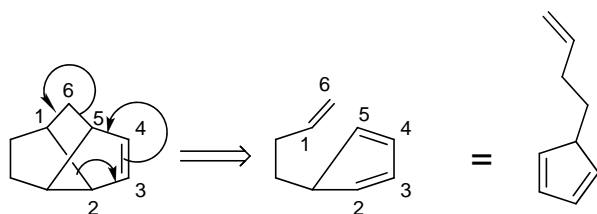
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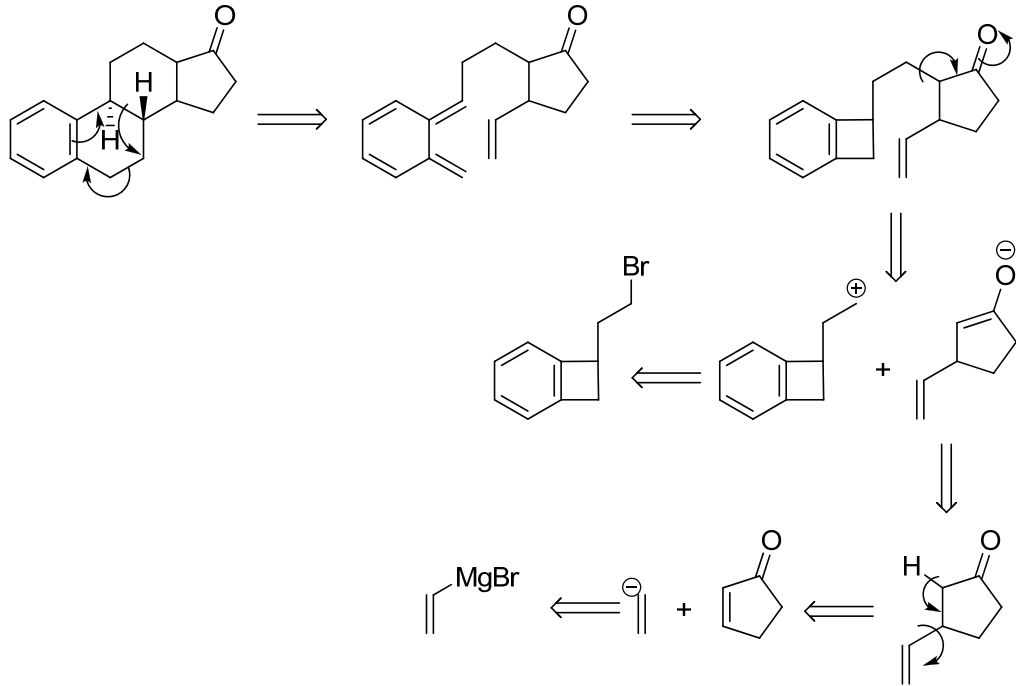
11

Ответы

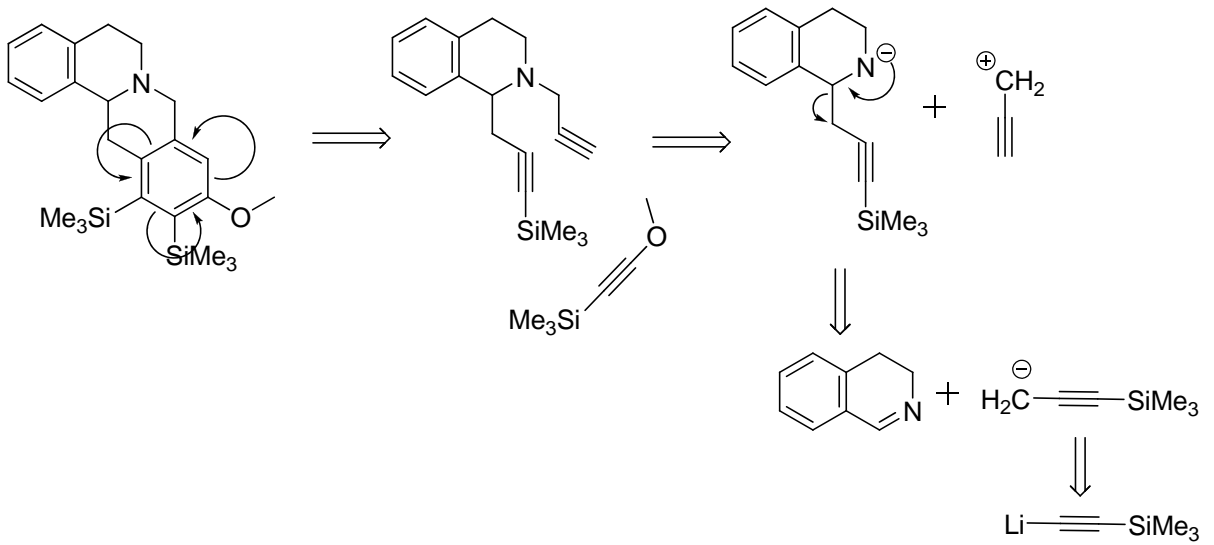
1.



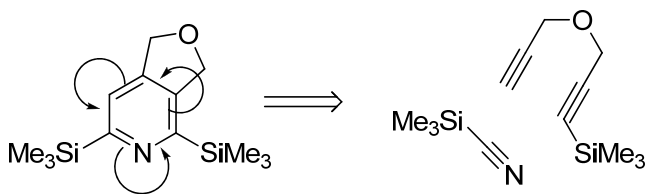
2.



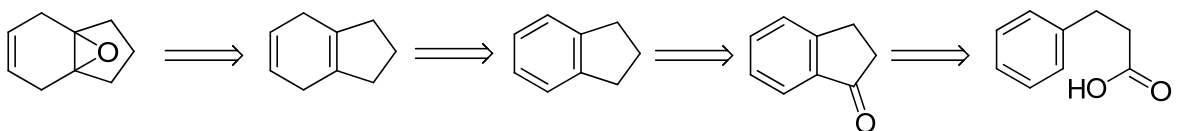
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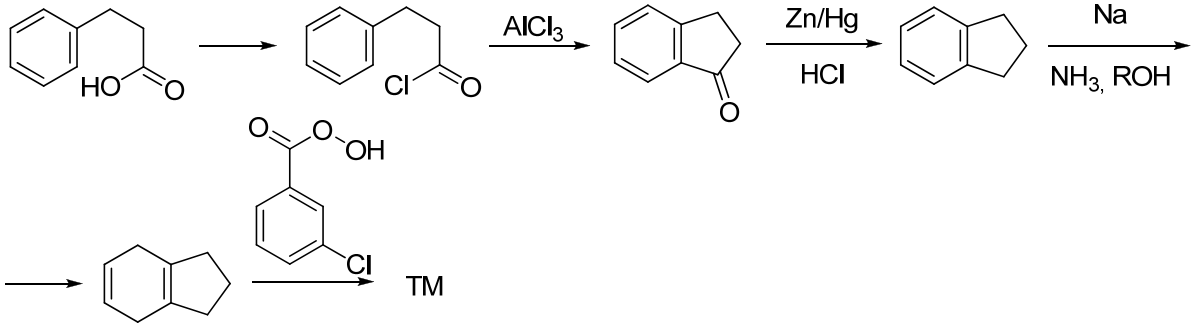
4.



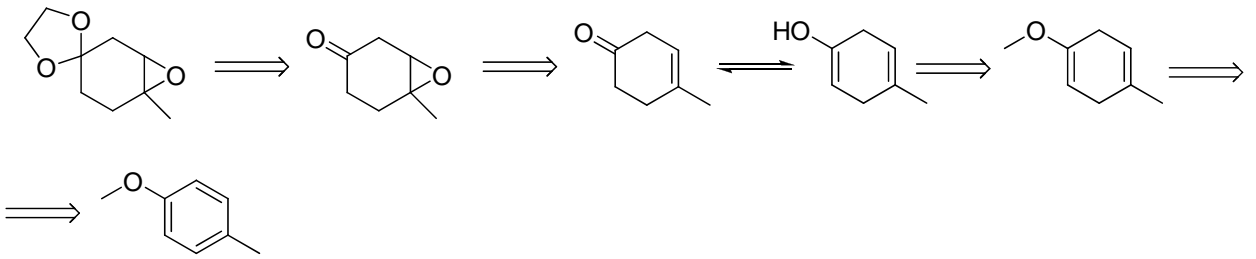
5. Анализ:



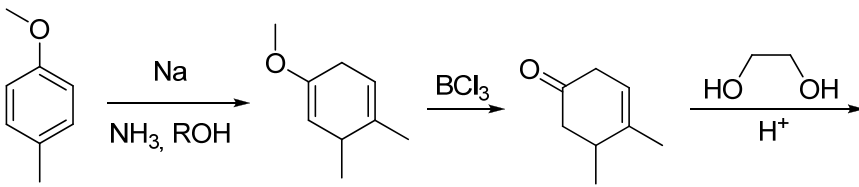
Синтез:



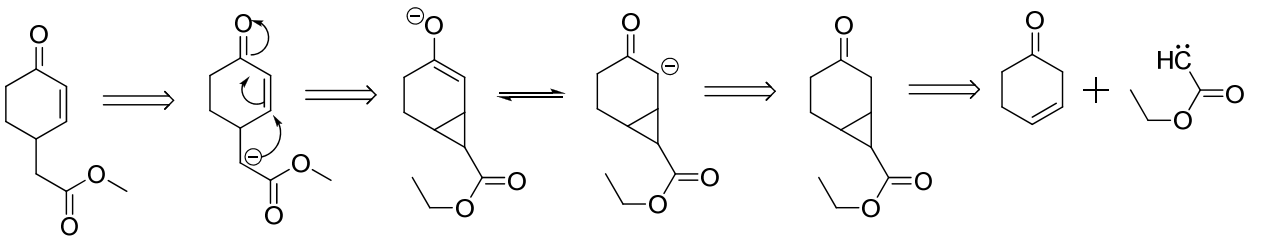
6. Анализ:



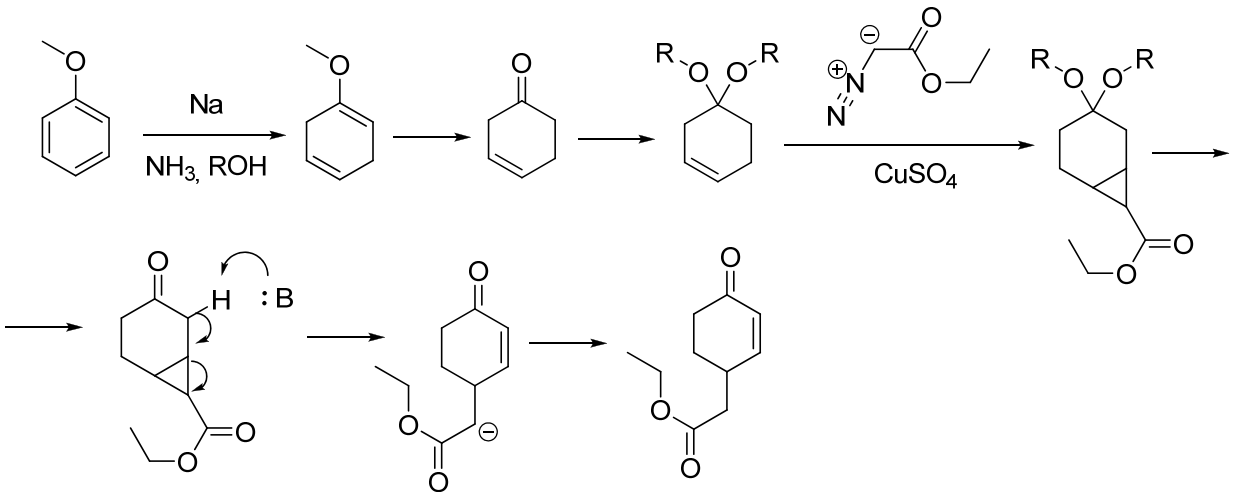
Синтез:



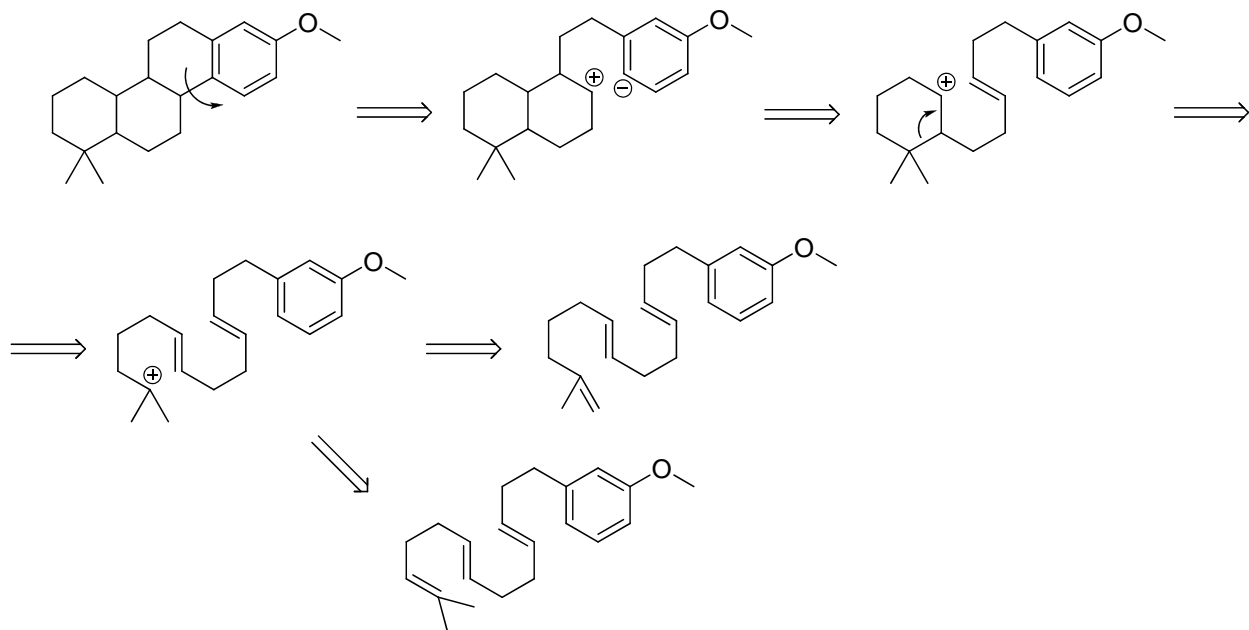
7. Анализ:



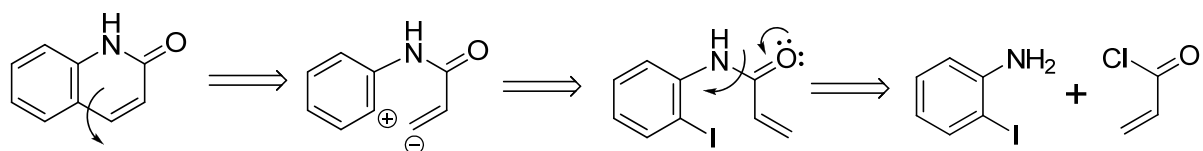
Синтез:



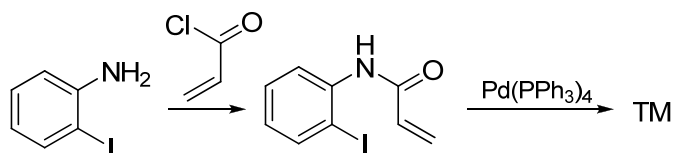
8.



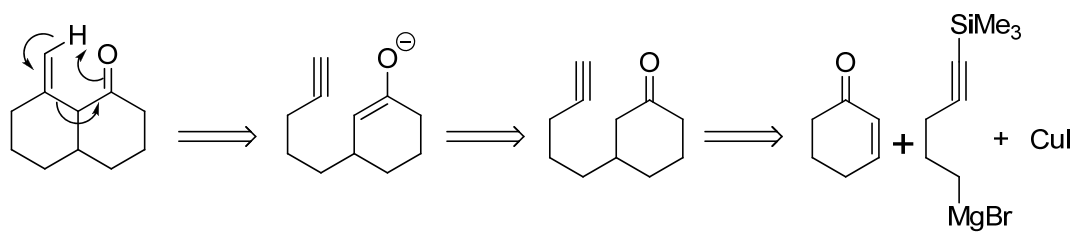
9. Анализ:



Синтез:



10.



11.

