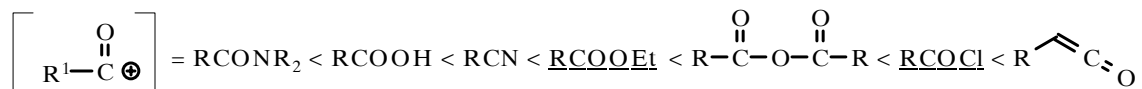
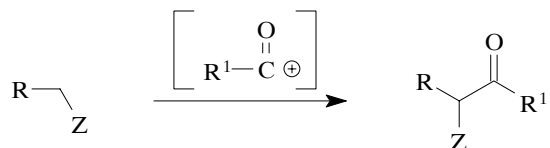
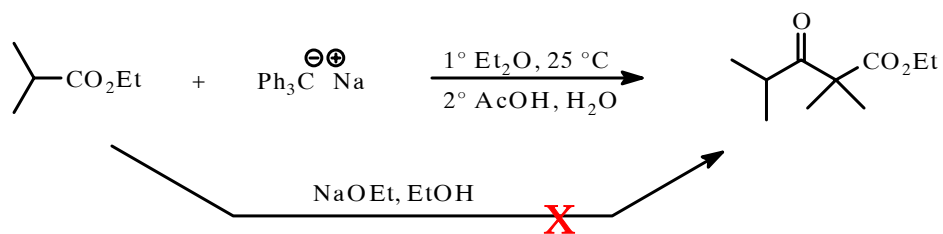
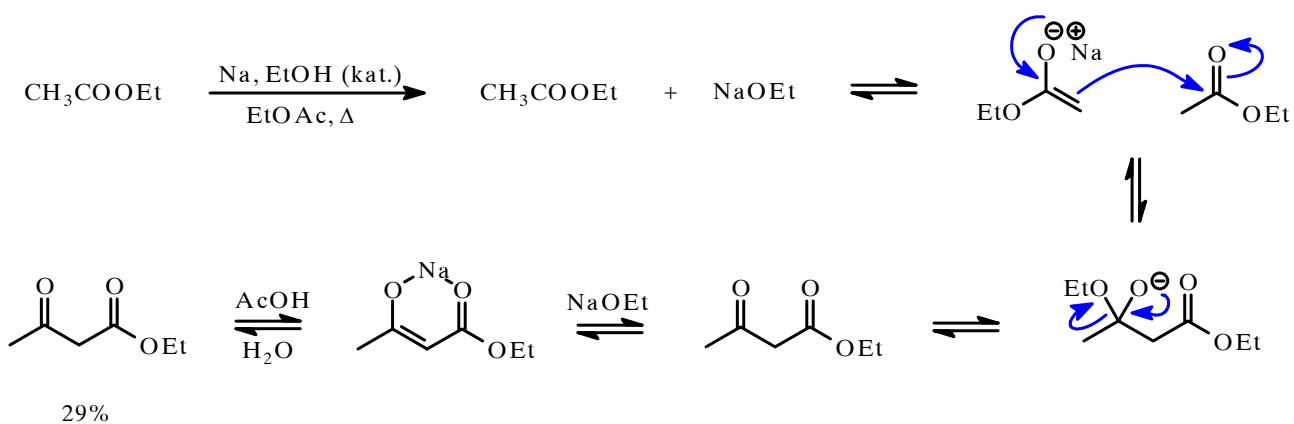


ACILOVANJE AKTIVNIH METILENSKIH JEDINJENJA



Intermolekulske reakcije

* Claisen-ova kondenzacija

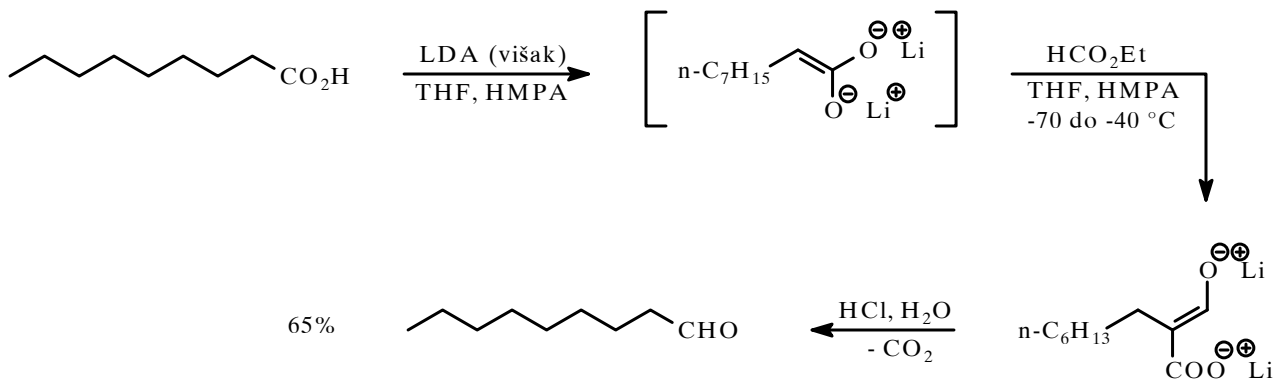
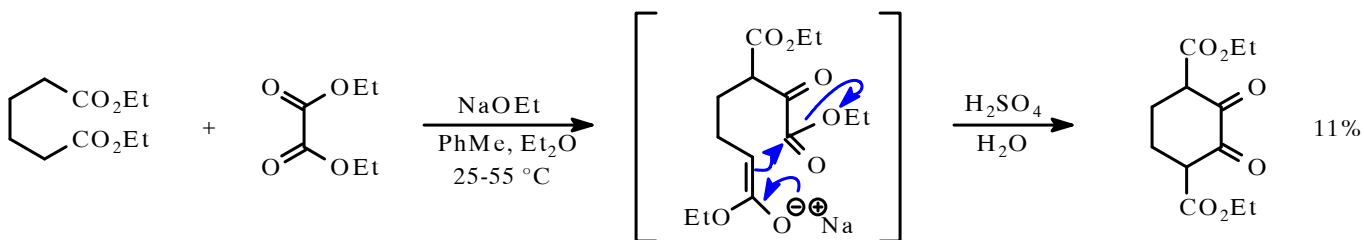
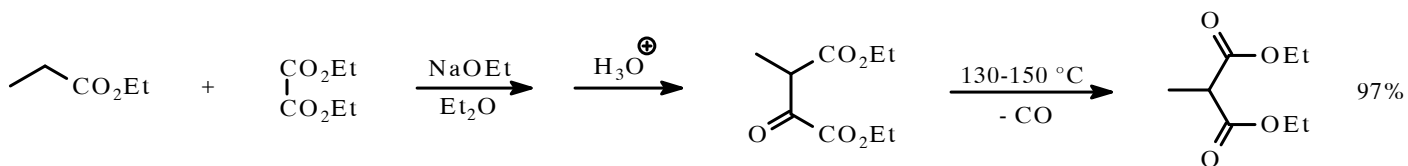
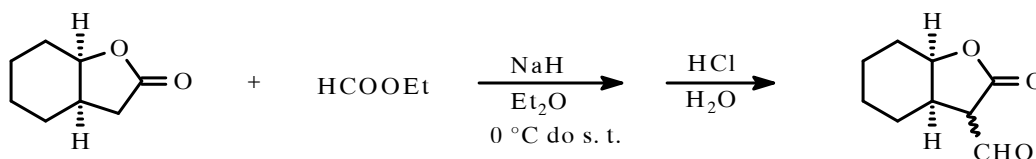
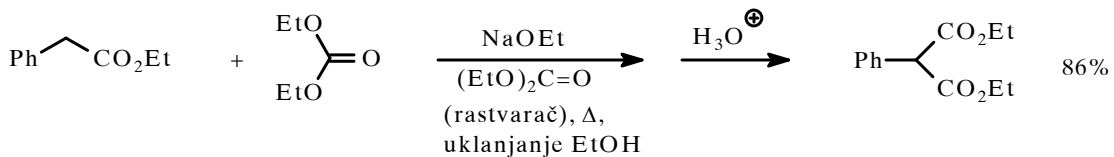
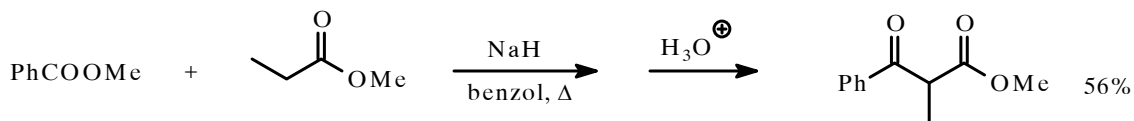


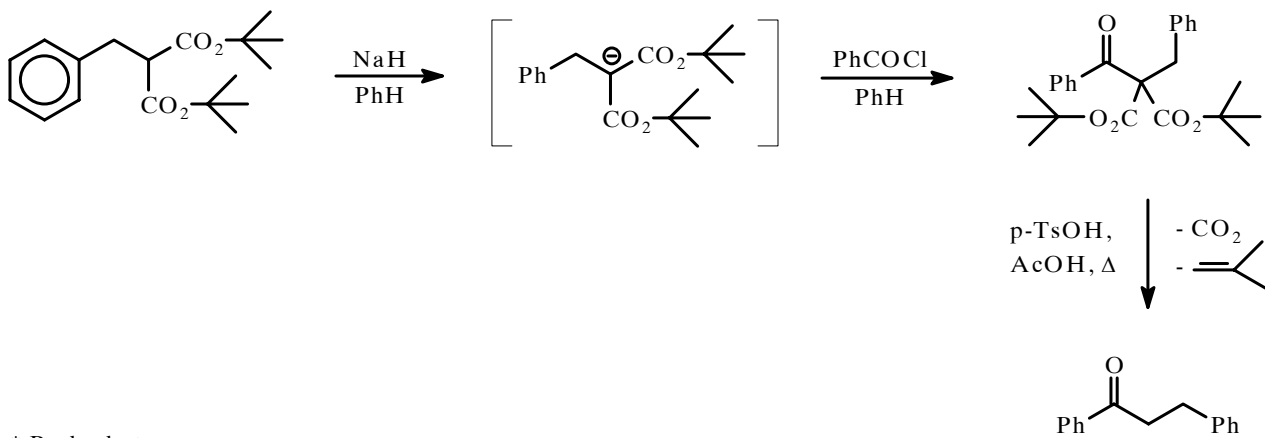
* Najbolja baza: NaH + ROH (kat.)

* Druge baze: Ph₃CNa, KH, Na⁺ · CH₂S(O)CH₃

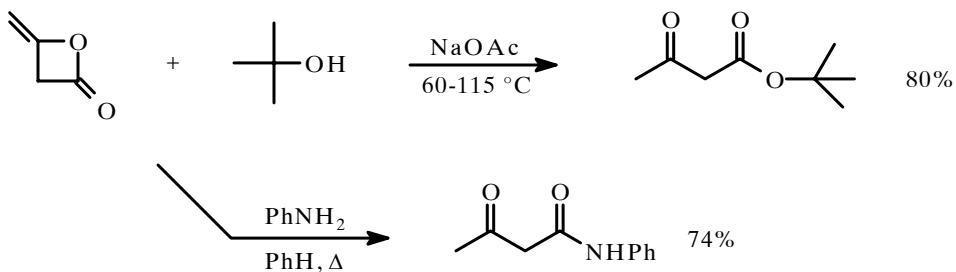
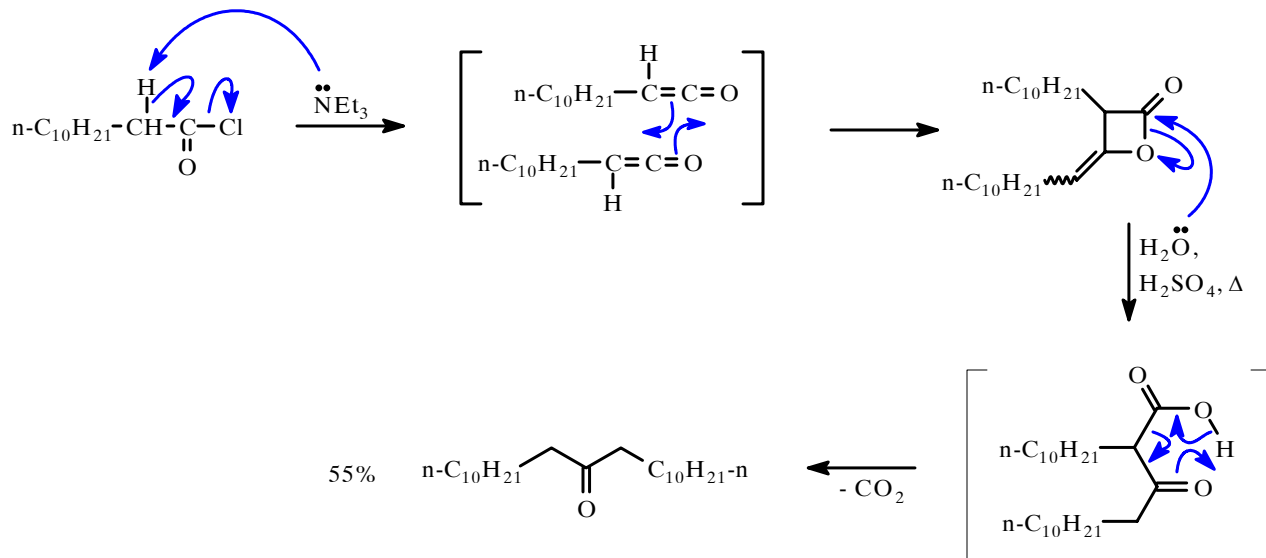
* Ukrštene kondenzacije: jedan estar bez α -H atoma

ArCOOR , HCOOR , $(\text{EtO})_2\text{C}=\text{O}$, $(\text{COOEt})_2$

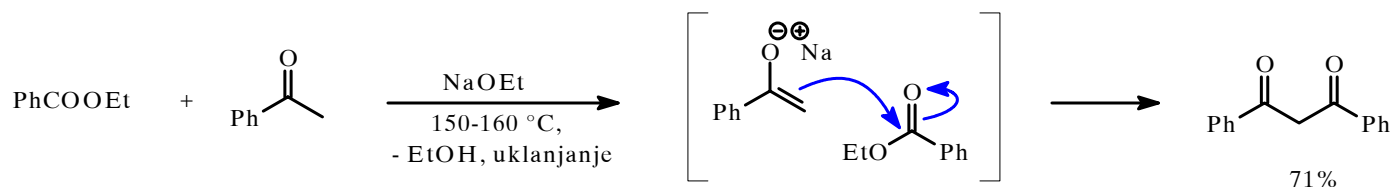




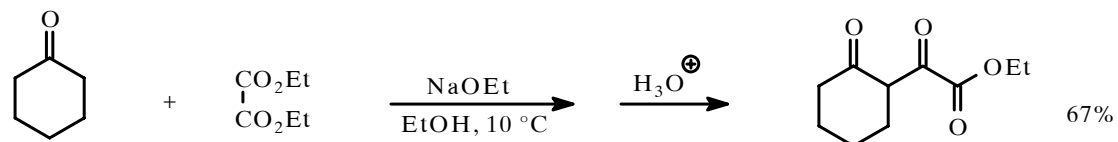
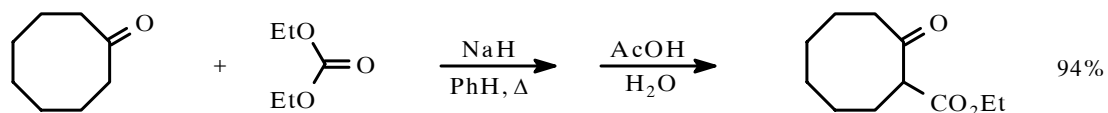
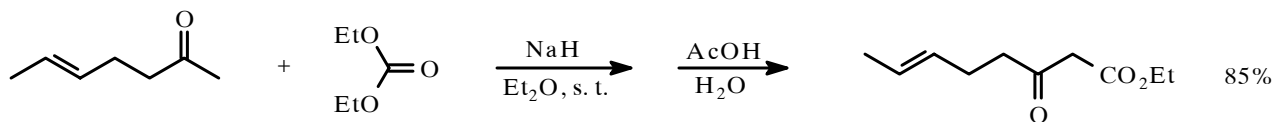
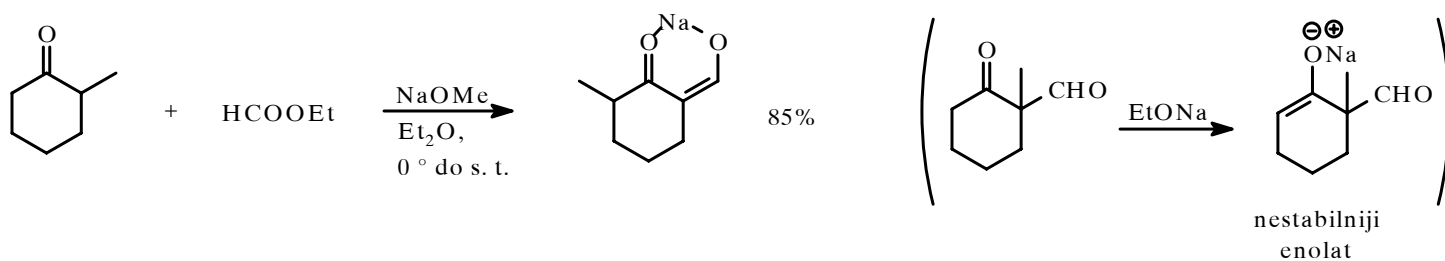
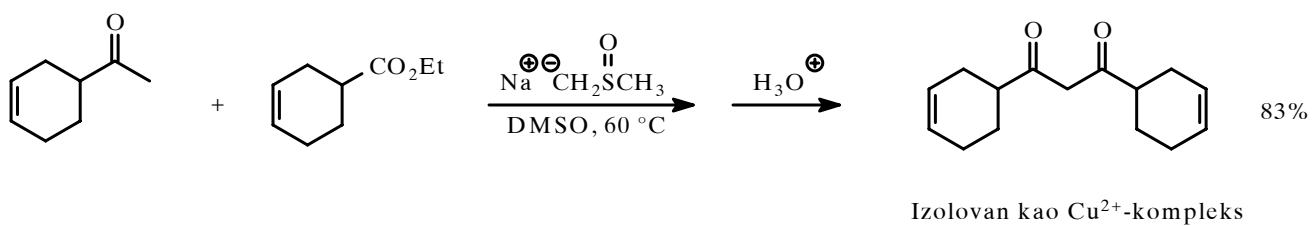
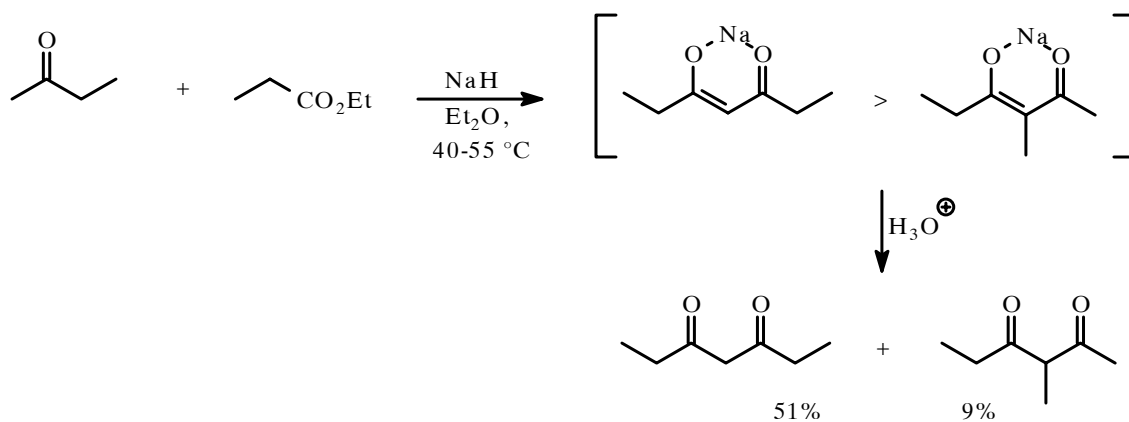
* Preko ketena

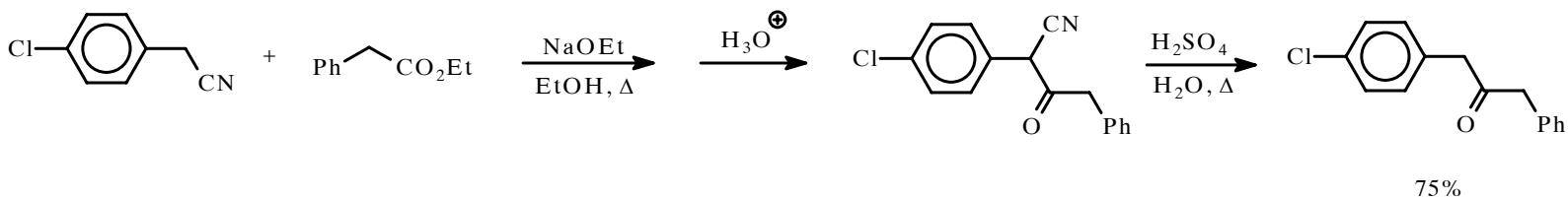


* Acilovanje ketona i nitrila

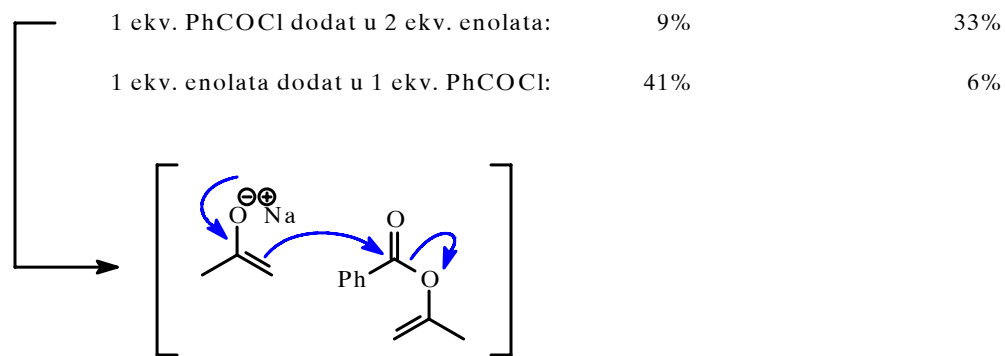
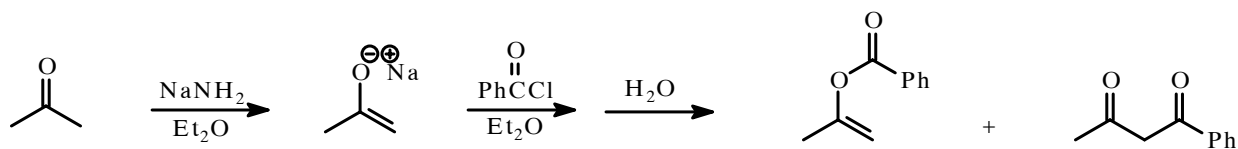
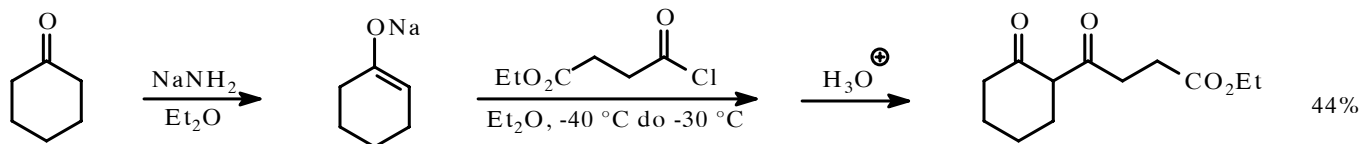


* Nesimetrični ketoni reaguju na manje supstituisanom kraju (stabilnost krajnjeg enolata)

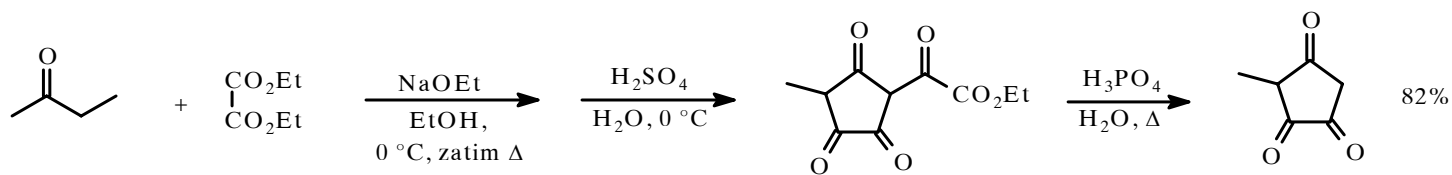




* Preformirani enolati; *O*- i *C*-acilovanje

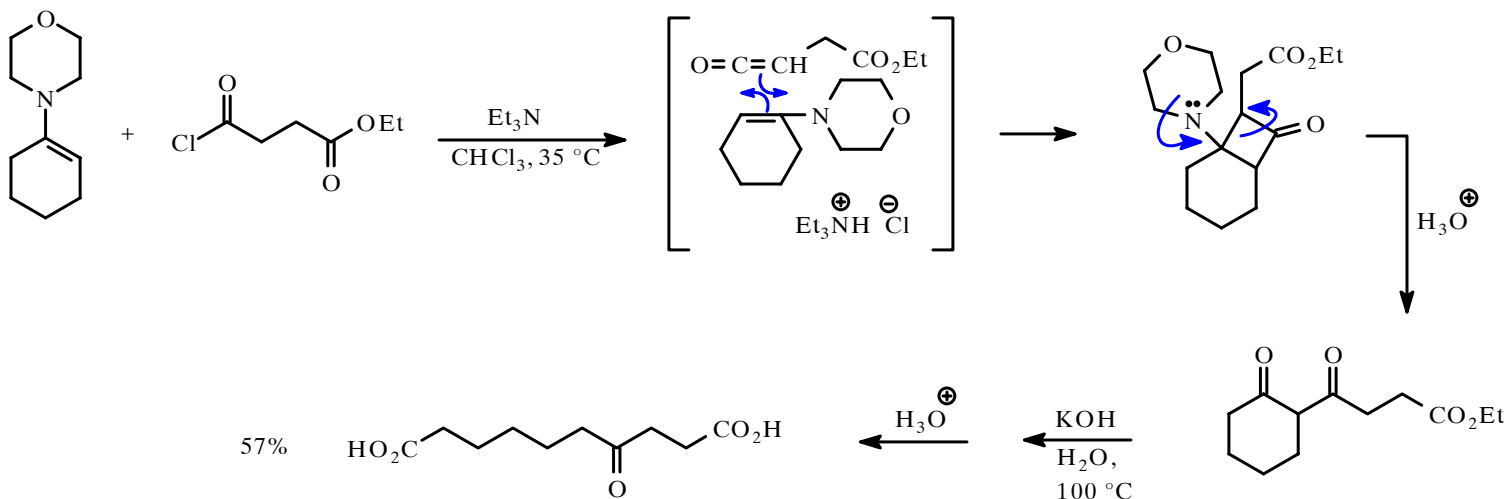
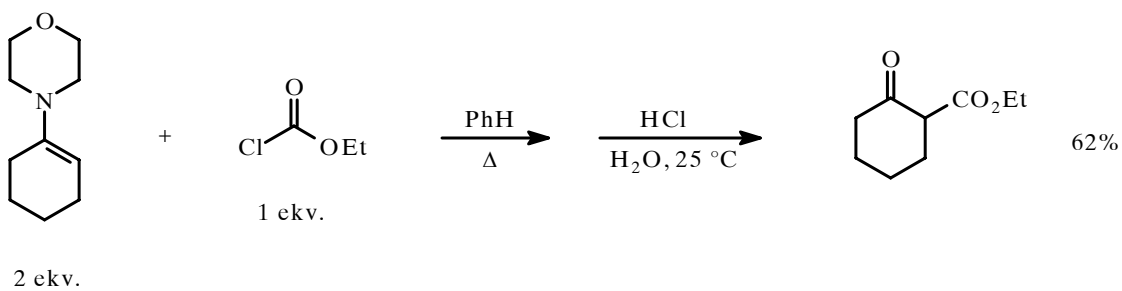
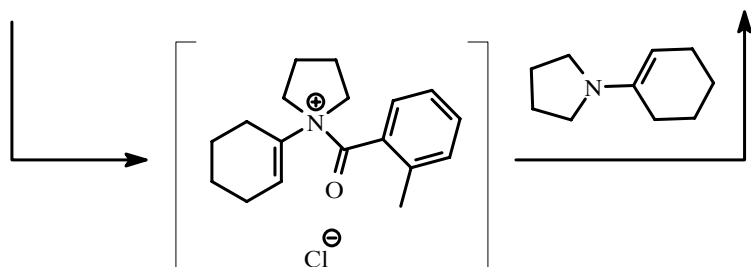
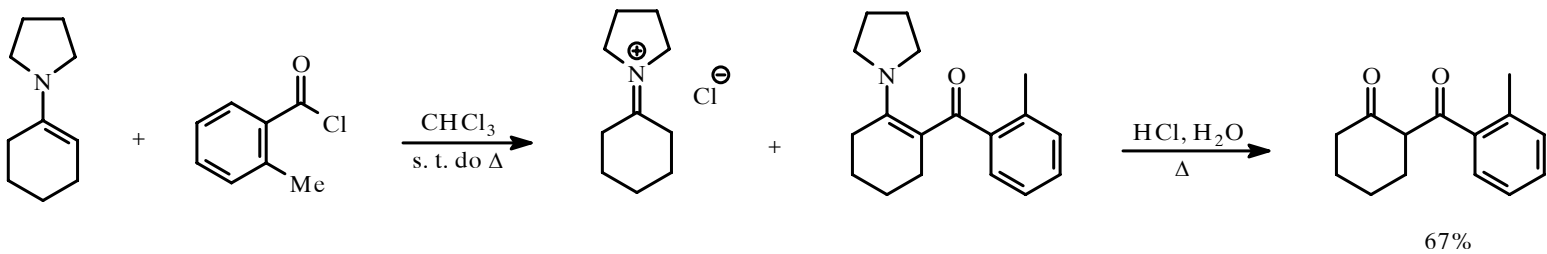


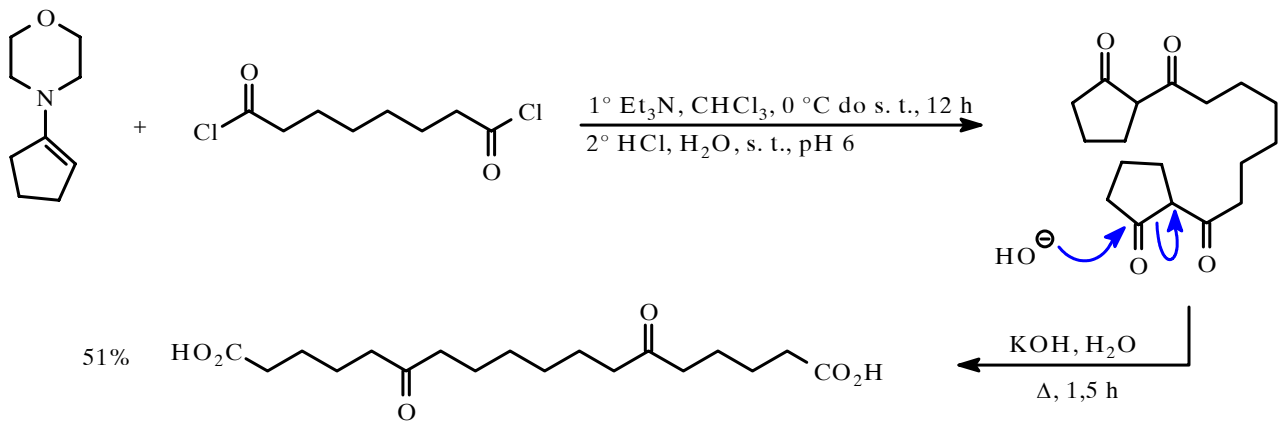
* Domino-reakcije



* Acilovanje enamina

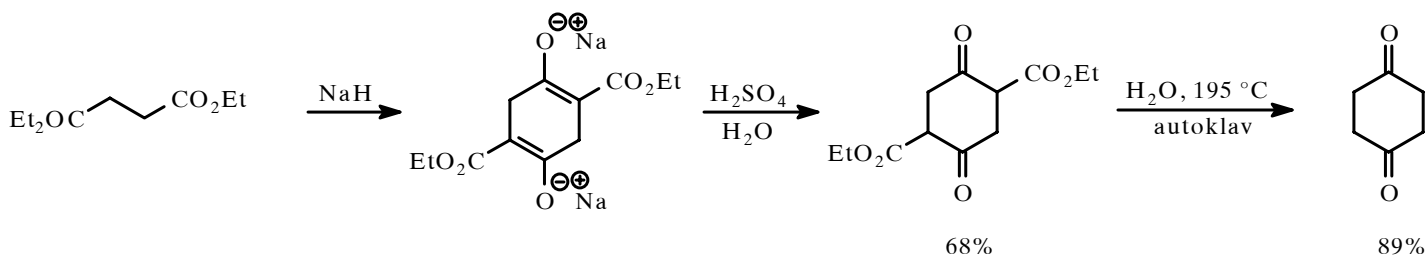
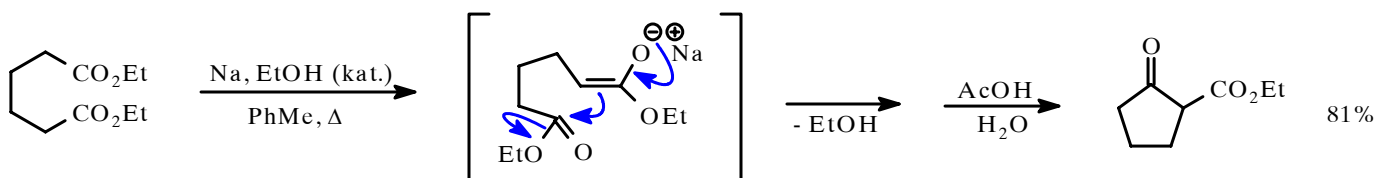
* višak enamina ili dodatak Et₃N



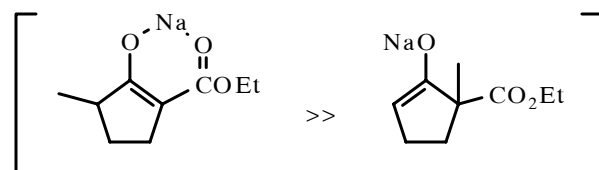
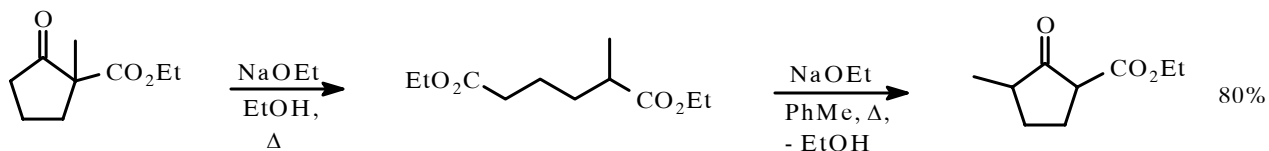
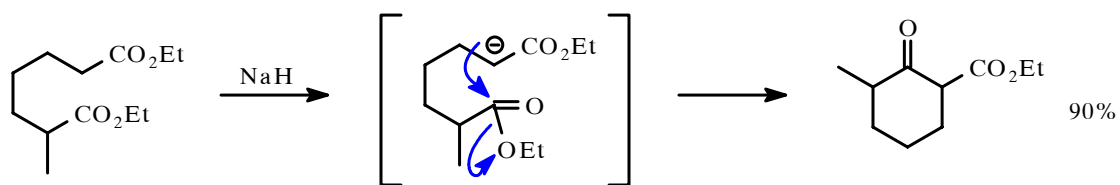


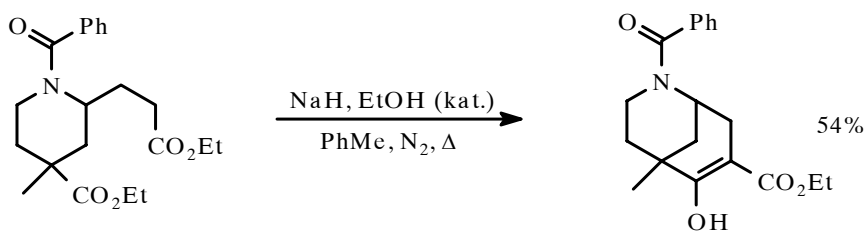
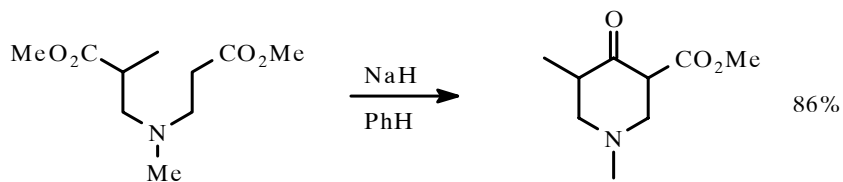
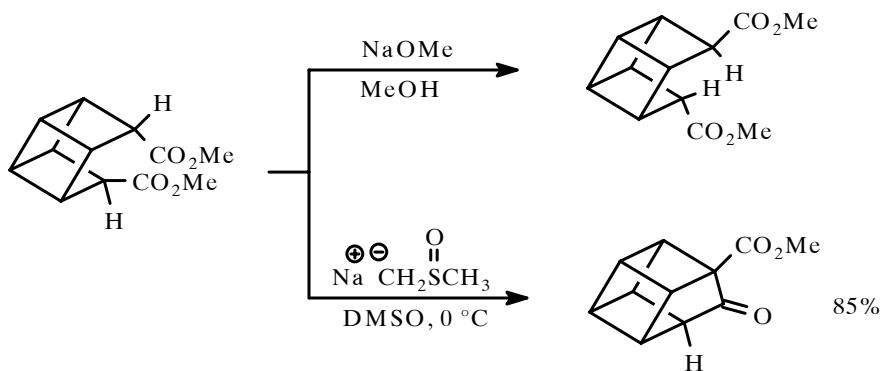
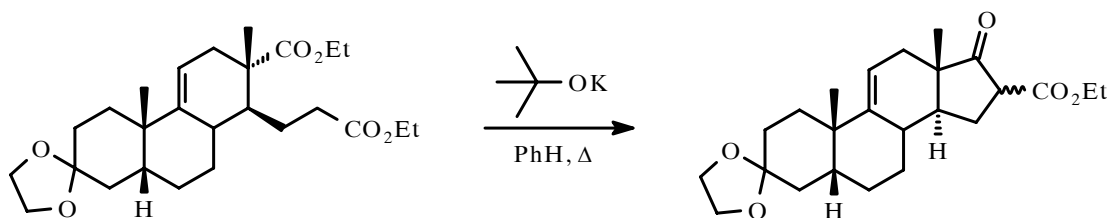
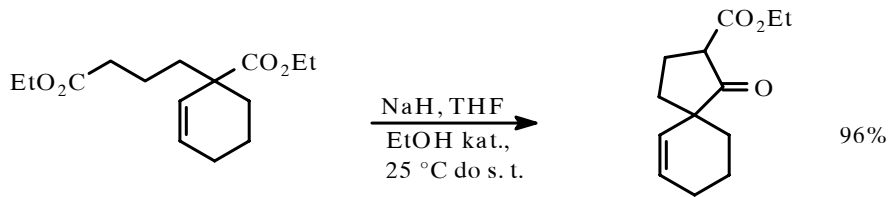
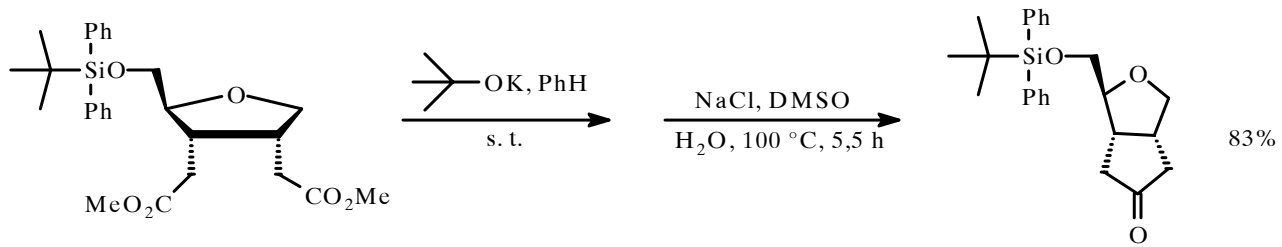
Intramolekulsko acilovanje

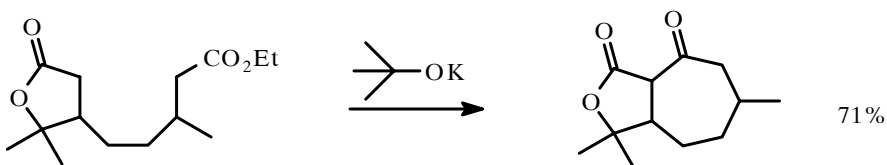
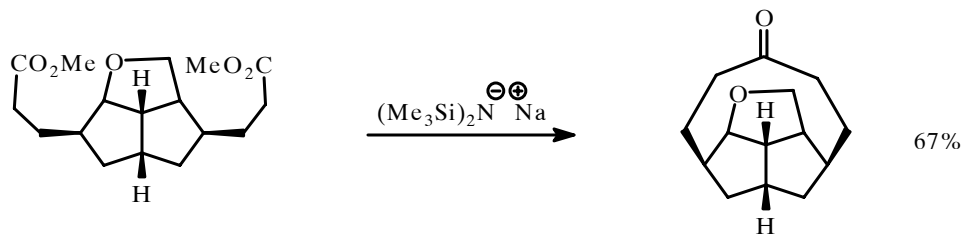
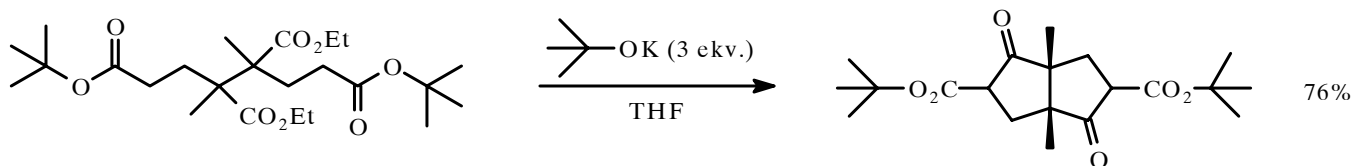
* Dieckmann-ova kondenzacija



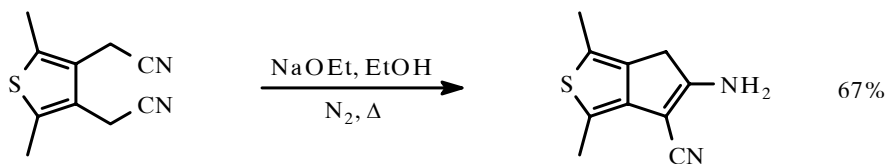
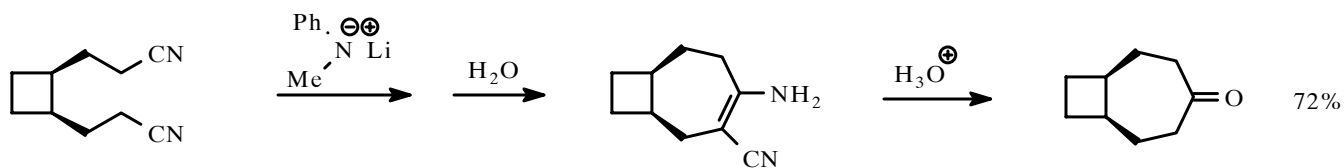
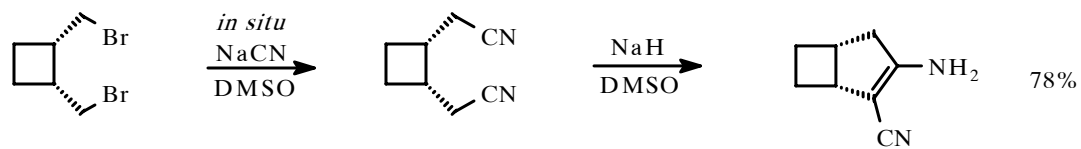
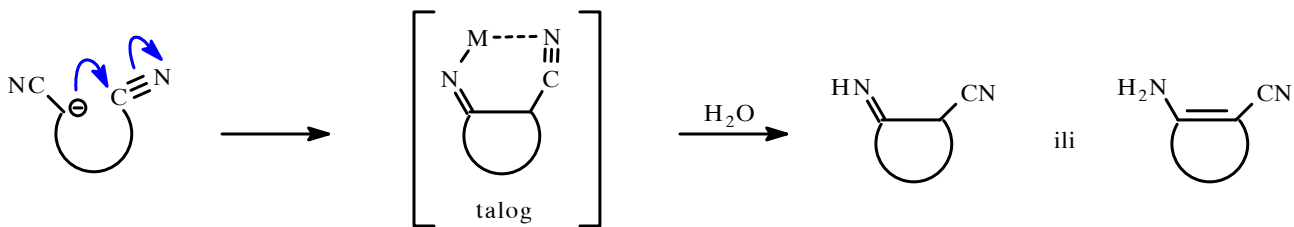
* Nesimetrični estri

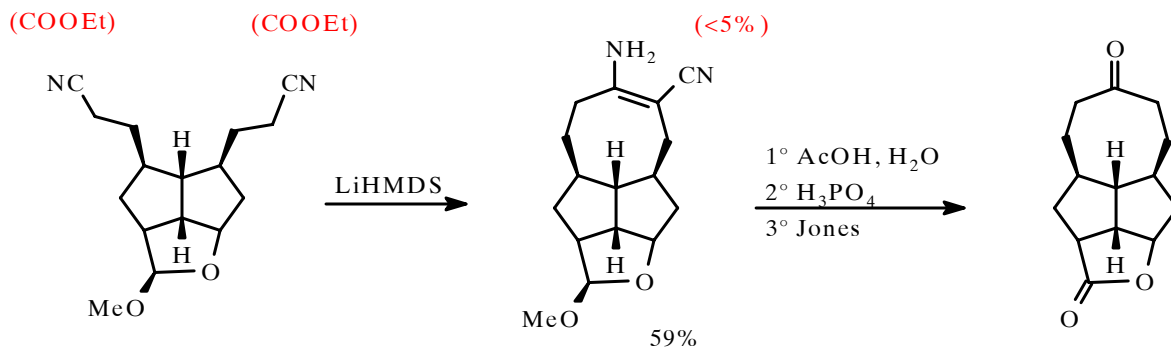




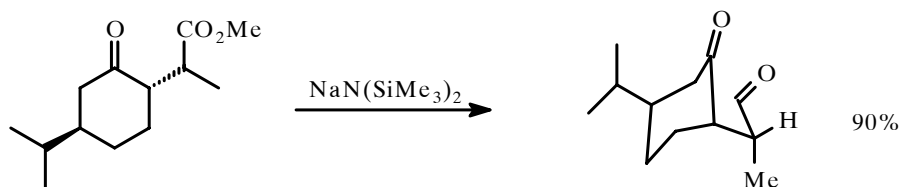
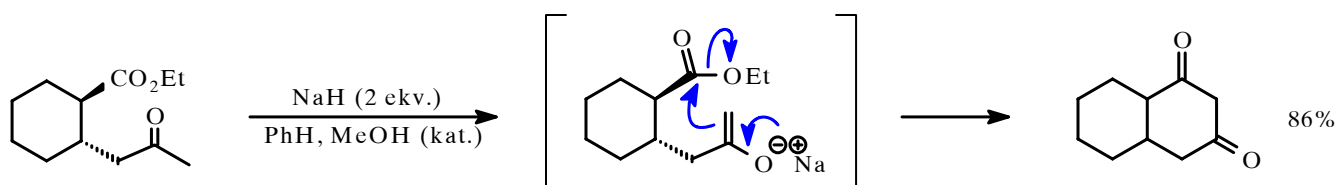
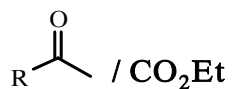
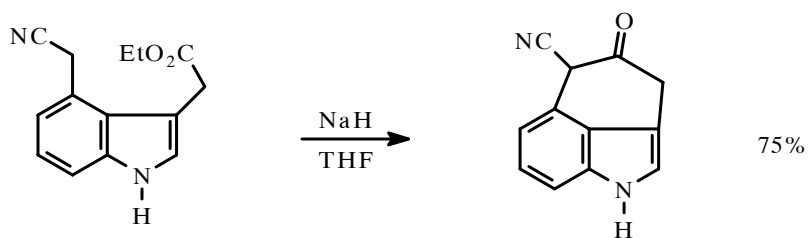
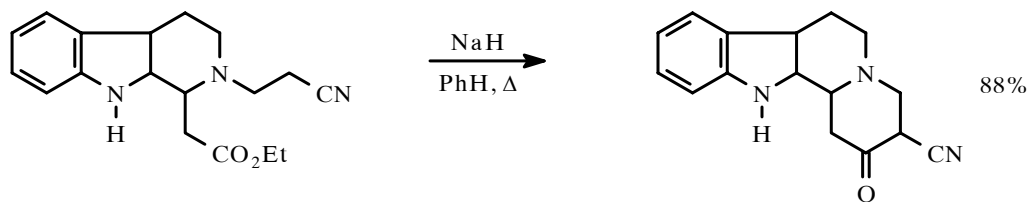


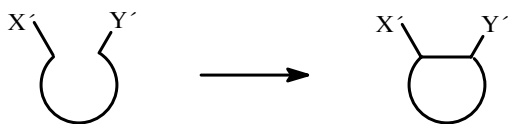
* Thorpe-Ziegler-ova kondenzacija





CN/COOR

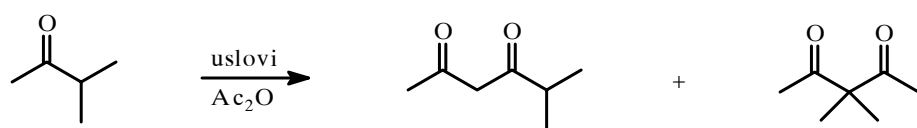
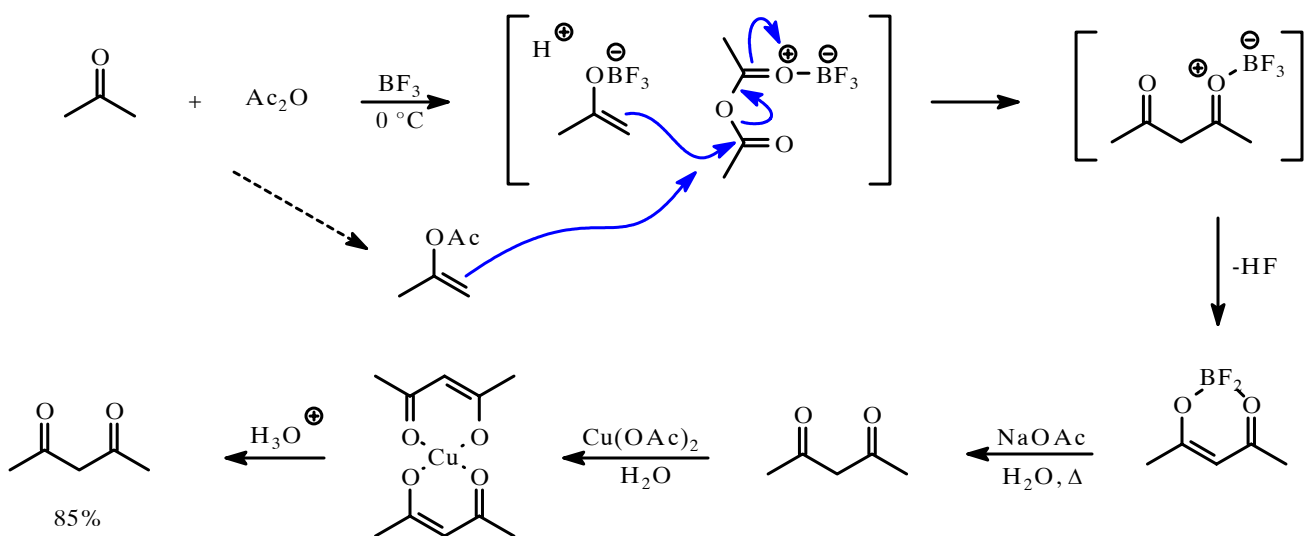




veličina prstena	METOD CIKLIZACIJE		
	Dieckmann	Thorpe-Ziegler	Aciloinjska kond.
6	/	95%	58%
7	47	96	52
8	15	89	36
9	0	0	38
10	0	0	52
11	0,5	2	53
12	0,5	/	80
13	24	14	80
14	32	57	85

* Acilovanje u kiselim uslovima

Katalizatori: BF_3 , AlCl_3 , H^+



BF_3 , $0^\circ\text{-}10^\circ\text{C}$ 70% 30%

$\text{BF}_3 \cdot 2\text{AcOH}$,
p-TsOH (kat.), 25°C 0% 100%

