PAKET 9

# PELATIHAN ONLINE

2019

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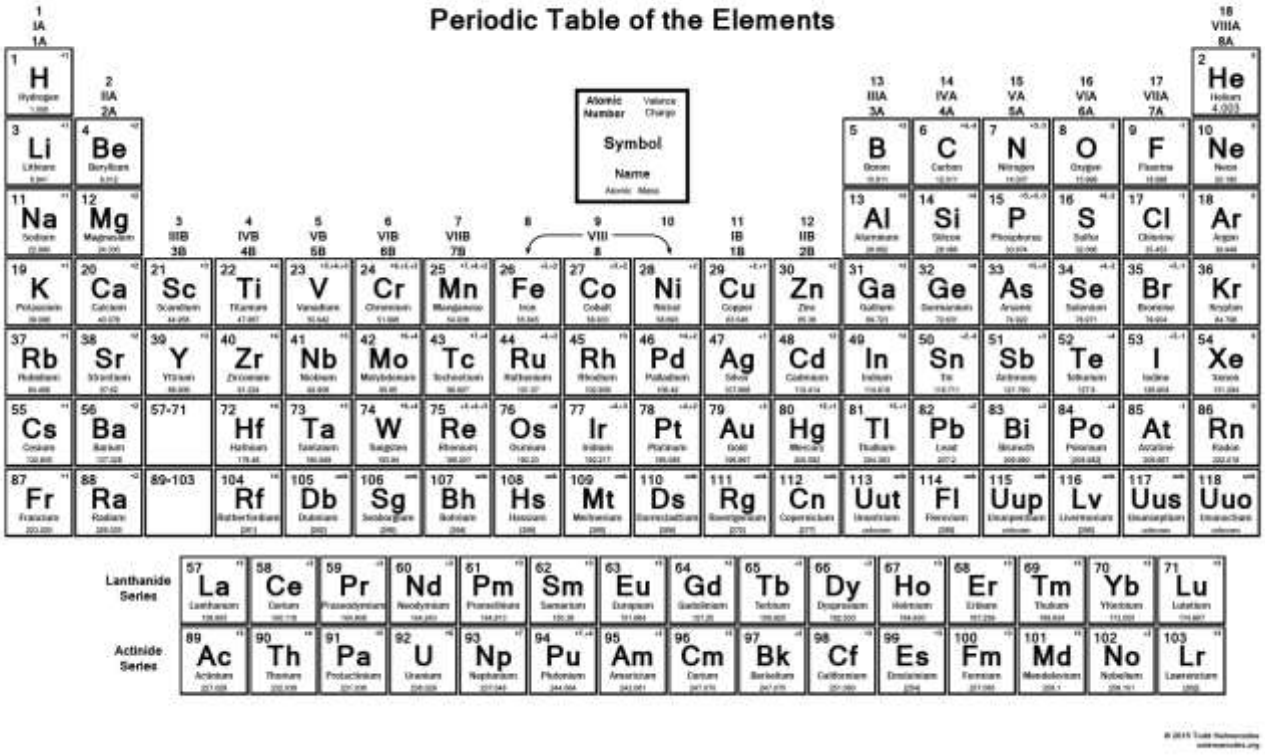
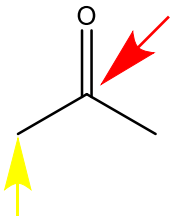
# KIMIA ORGANIK, KARBONIL

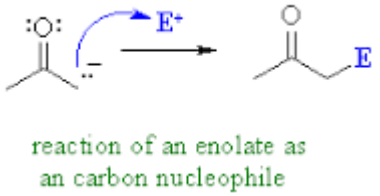


Materi Singkat

**Tinjauan Singkat Karbonil**



Terdapat dua bagian penting dalam karbonil : C yang bersifat elektrofil (ditandai panah merah) dan C yang berpotensi bersifat nukleofil (ditandai panah kuning). Cara mengubah bentuk karbonil menjadi spesi nukleofil adalah dengan menambahkan basa, dengan ditambahkannya basa maka akan terbentuk spesi nukeofilik yakni ion enolat



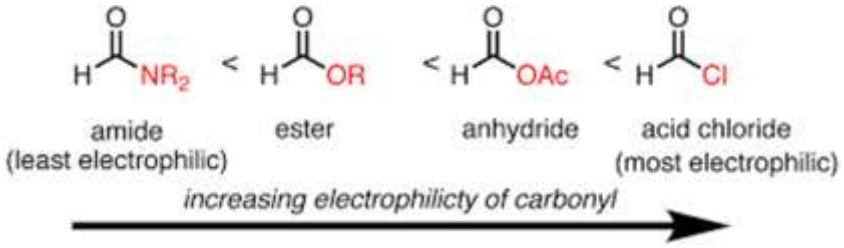

*Gambar 1: ion enolat dan reaksinya sebagai nukleofil, sumber :*
*http://www.chem.ucalgary.ca/courses/351/Carey5th/Ch18/ch18-1.html*

Nukleofil ini yang kemudian dapat bereaksi dengan berbagai jenis elektrofil untuk menghasilkan produk

TIPS MENGERJAKAN SOAL

#9 Kereaktifan gugus karbonil

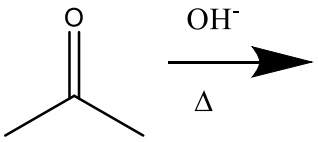
Gugus karbonil memiliki urutan kestabilan sebagai berikut

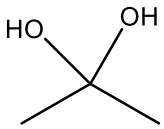


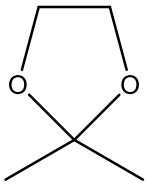

*Gambar 2: urutan kereaktifan gugus karbonil, sumber : https://www.masterorganicchemistry.com/2010/04/04/carbonyl-chemistry-10-key-concepts-part-1/*

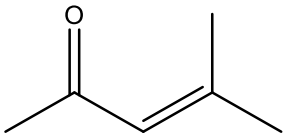
# SOAL

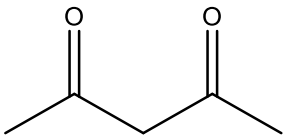
1. Tentukan produk dari reaksi berikut!

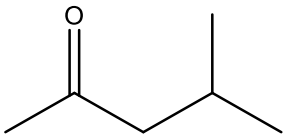



a. 

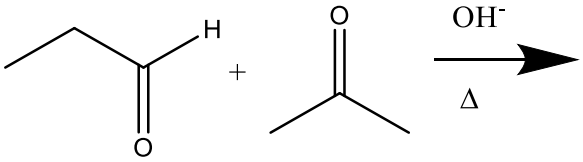

b. 

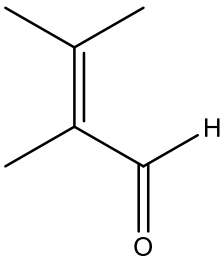

c. 

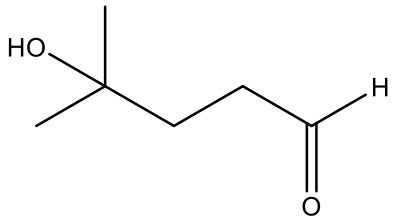

d. 

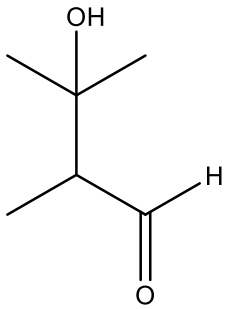

e. 

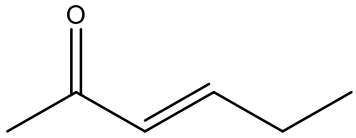

2. Tentukan produk dari reaksi berikut!

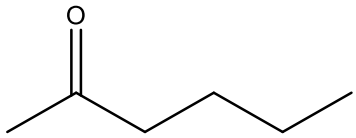



a. 

b. 


c. 


d. 


e. 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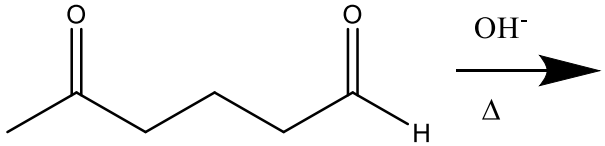
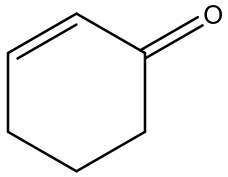
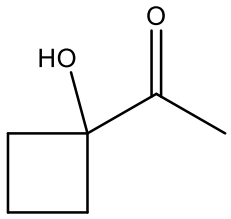
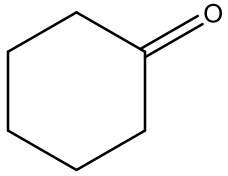
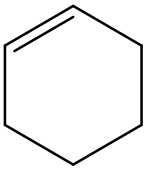
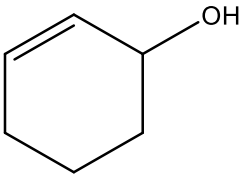



a. 


b. 


c. 

d. 

e. 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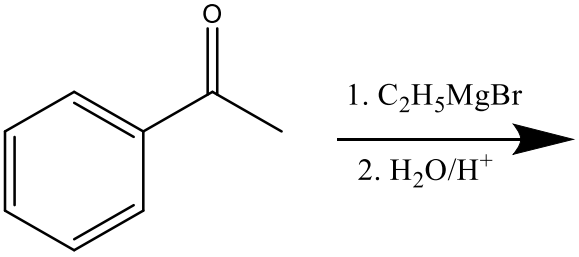
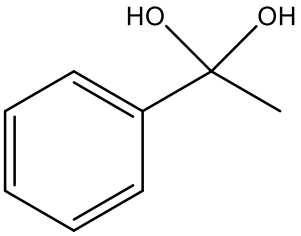
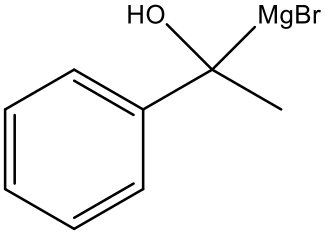
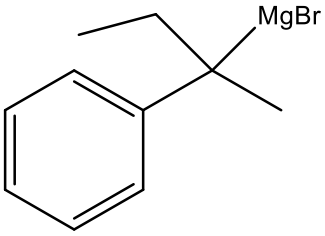
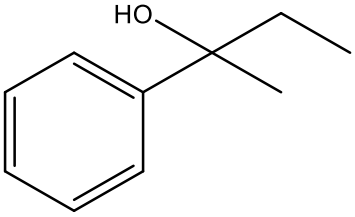
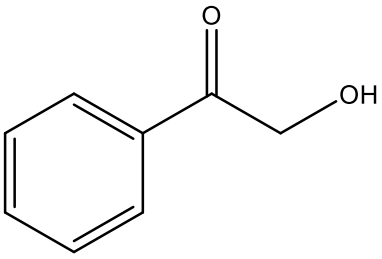



a. 


b. 


c. 


d. 

e. 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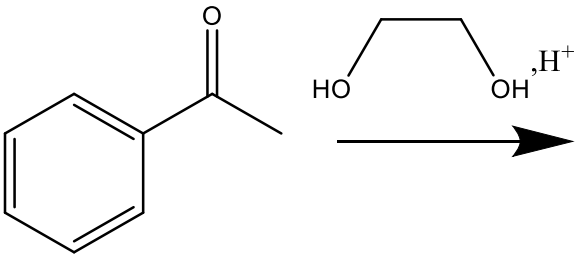
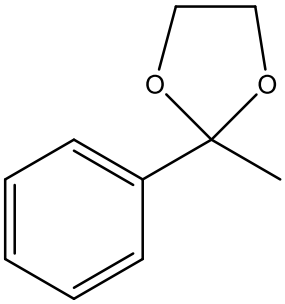
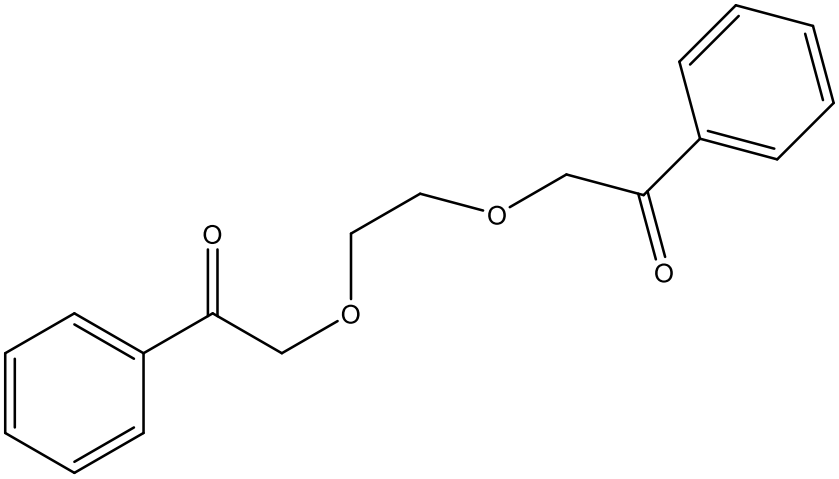
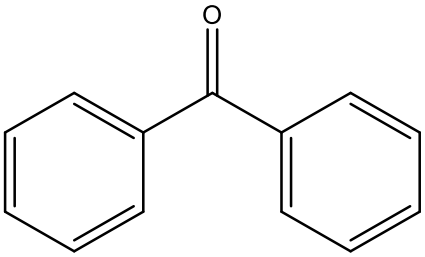
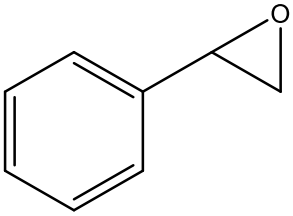
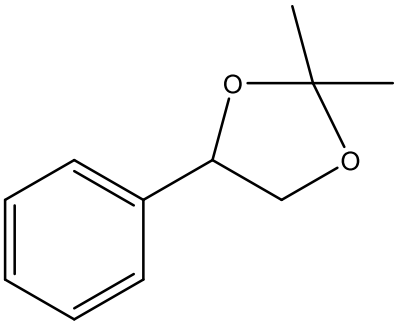



a. 


b. 


c. 

d. 

e. 

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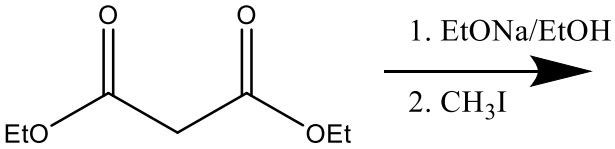
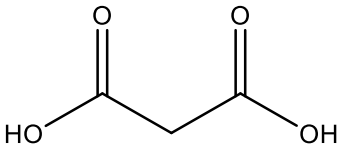
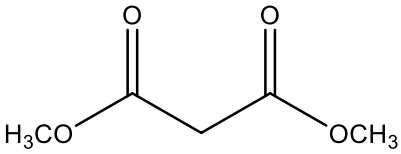
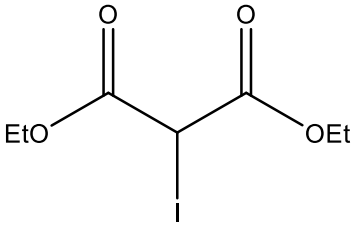
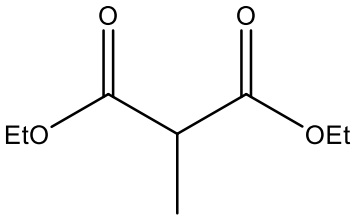
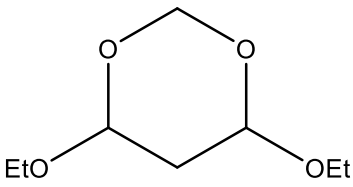



a. 

b. 

c. 

d. 

e. 

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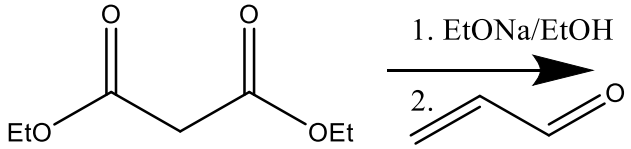
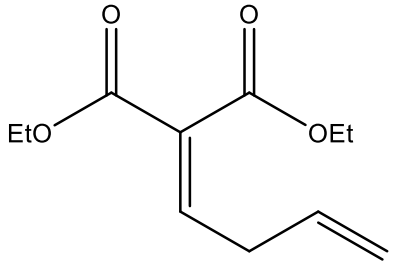
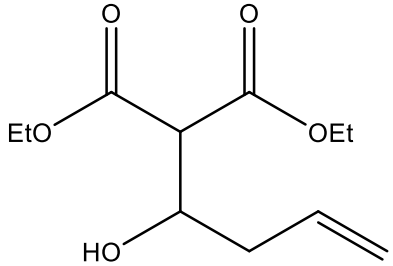
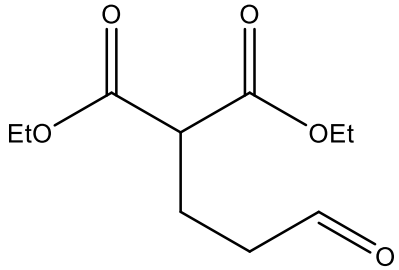
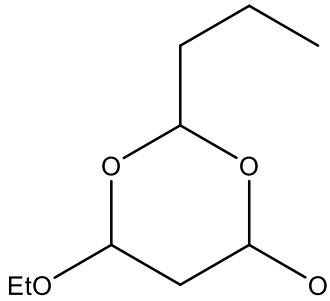
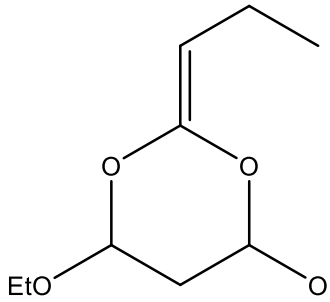



a. 

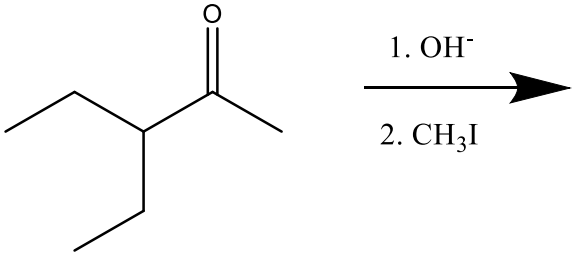

b. 

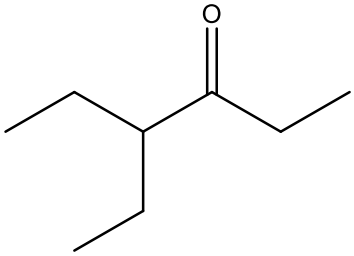

c. 

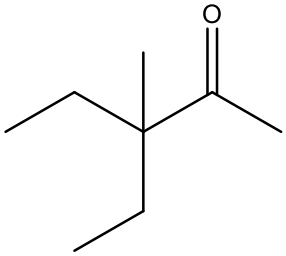

d. 

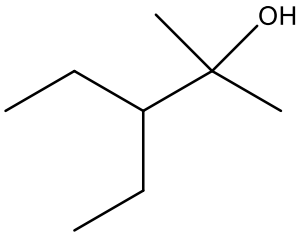

e. 

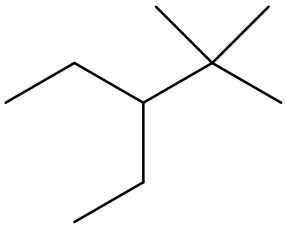
8. Tentukan produk dari reaksi berikut!

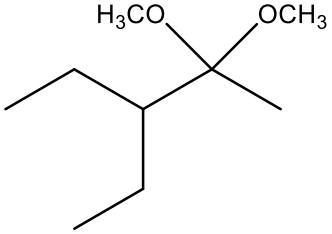



a. 

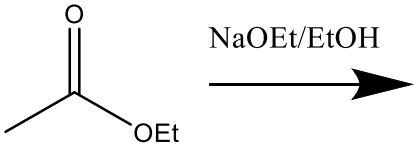

b. 

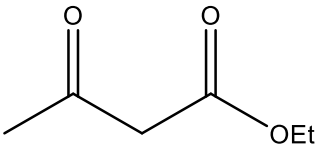

c. 

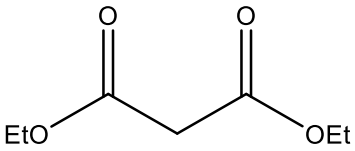

d. 

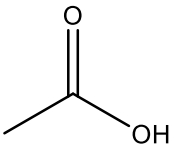
e. 

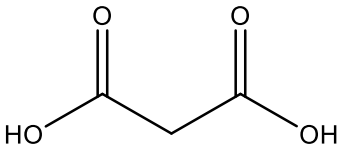

9. Tentukan produk dari reaksi berikut!

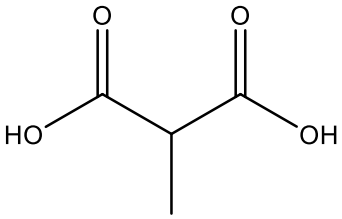


a. 

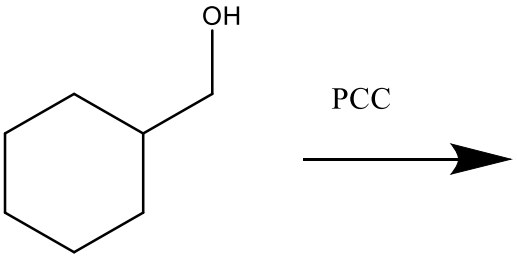

b. 

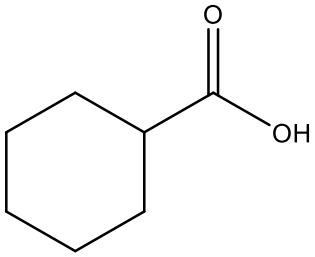

c. 

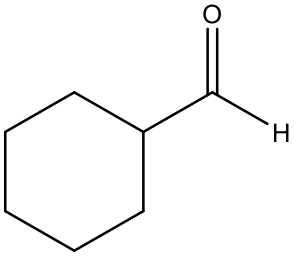

d. 

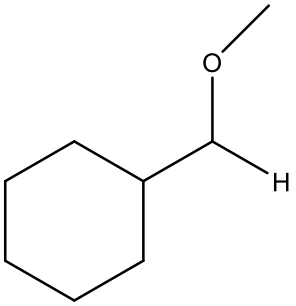

e. 

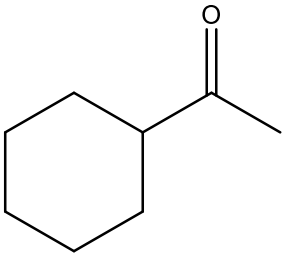

10. Tentukan produk dari reaksi berikut!

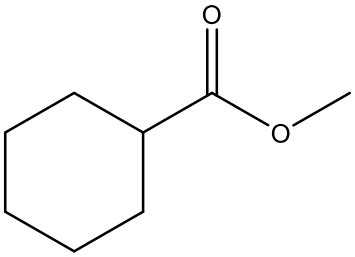



a. 

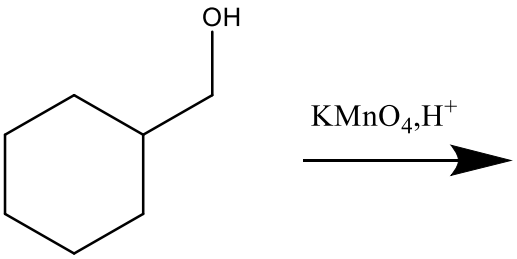

b. 

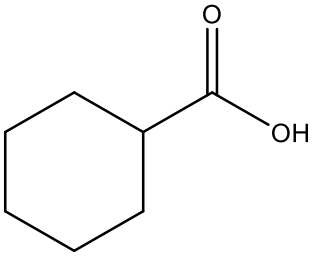
c. 

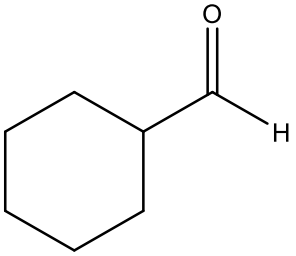

d. 

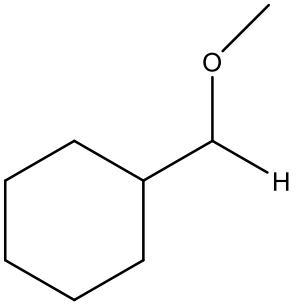

e. 

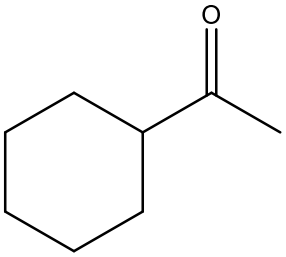

11. Tentukan produk dari reaksi berikut!

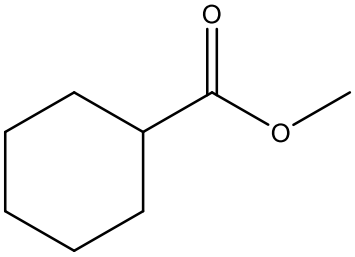



a. 

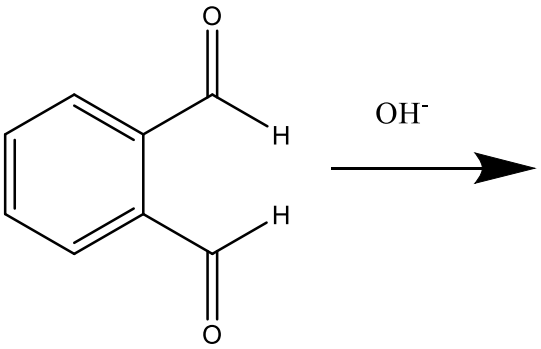

b. 

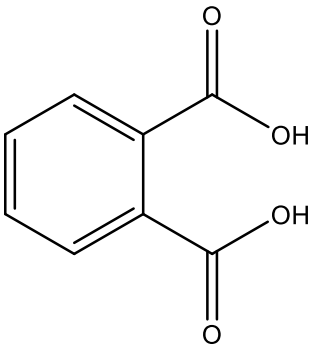
c. 

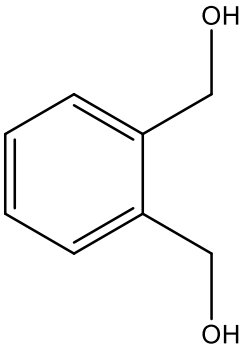

d. 

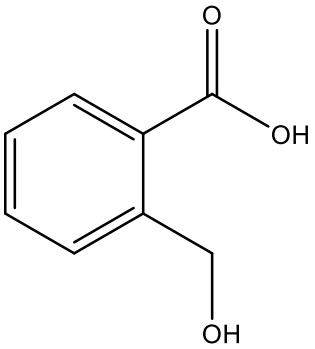

e. 

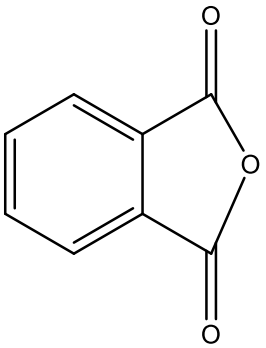

12. Tentukan produk dari reaksi berikut!

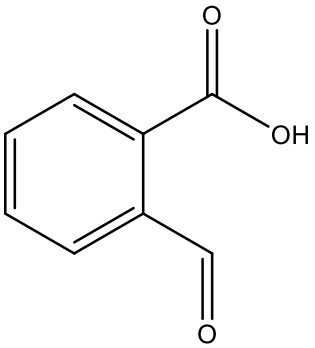



a. 

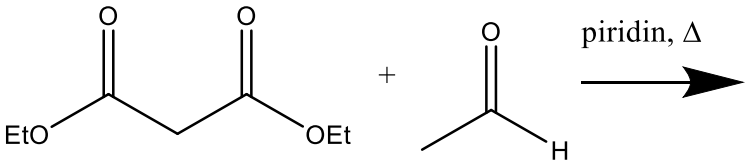
b. 

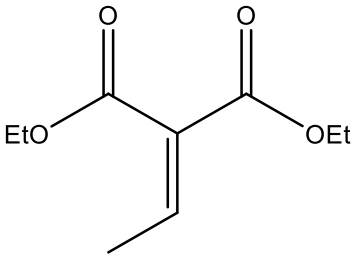

c. 

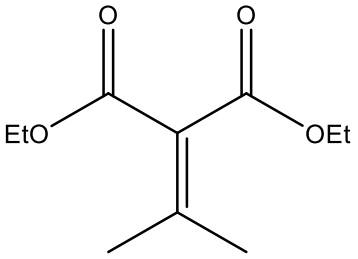

d. 

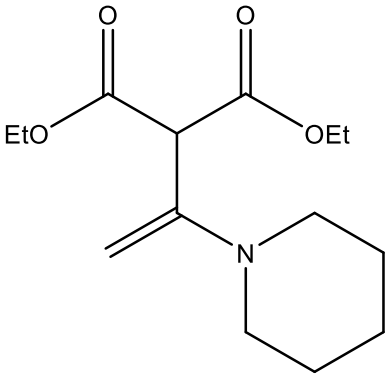

e. 

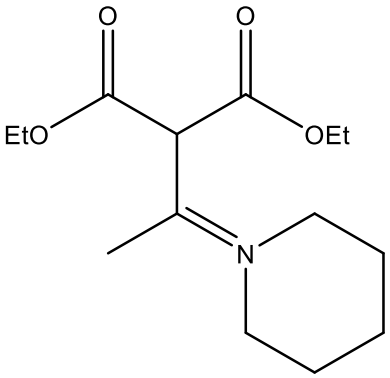

13. Tentukan produk dari reaksi berikut!

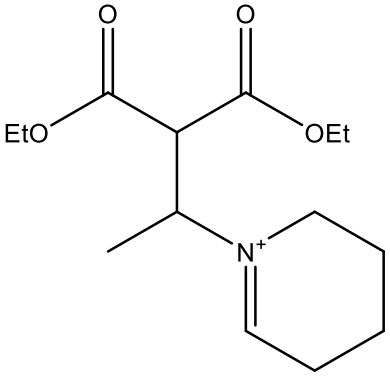


a. 

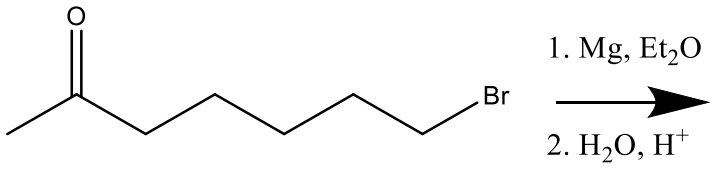

b. 

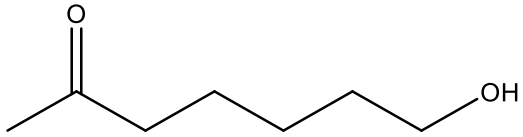

c. 

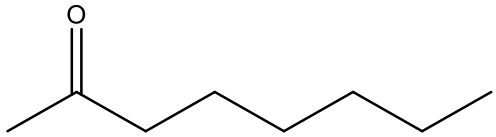

d. 

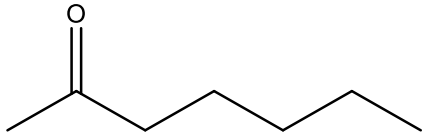

e. 

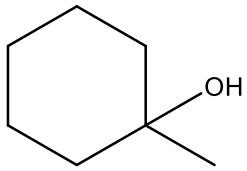
14. Tentukan produk dari reaksi berikut!

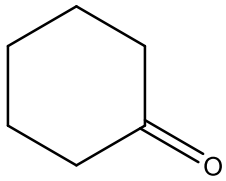



a. 

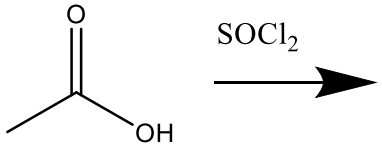

b. 

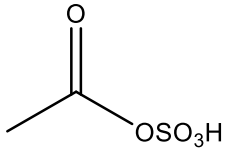

c. 

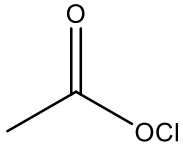

d. 

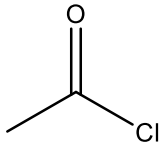

e. 

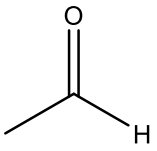

15. Tentukan produk dari reaksi berikut!

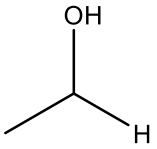



a. 

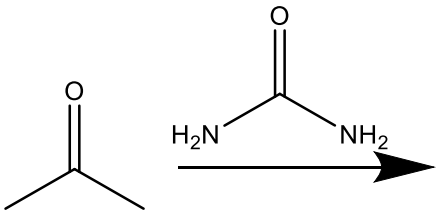

b. 

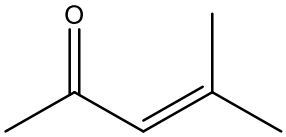

c. 

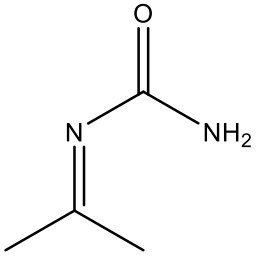
d. 

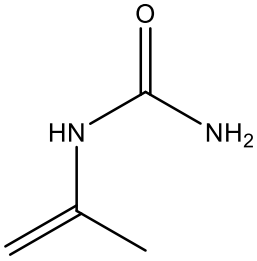

e. 

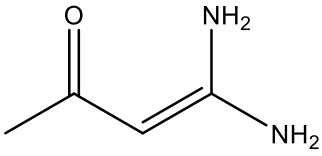

16. Tentukan produk dari reaksi berikut!

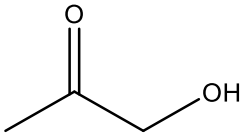



a. 

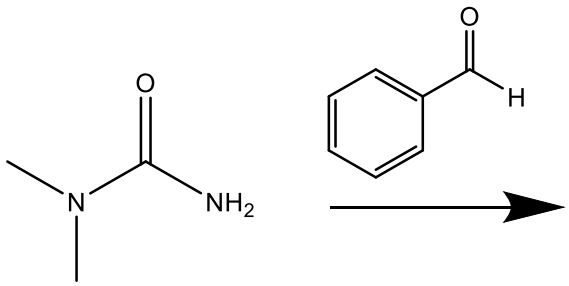

b. 

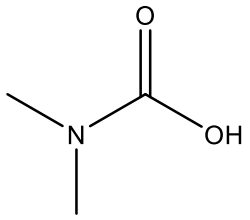

c. 

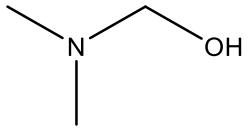

d. 

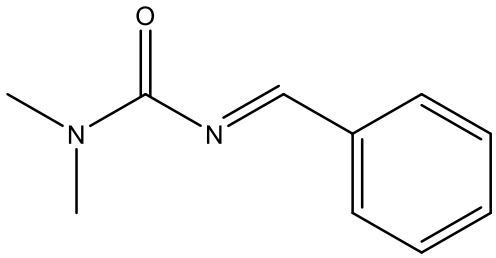

e. 

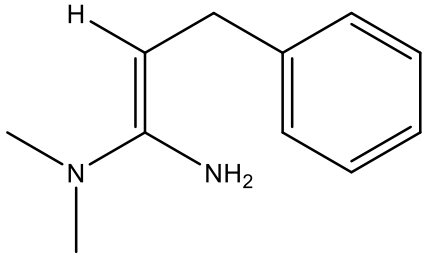
17. Tentukan produk dari reaksi berikut!

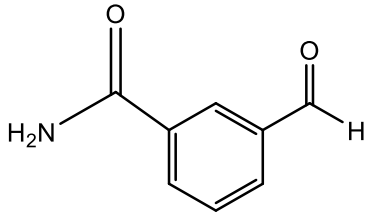



a. 

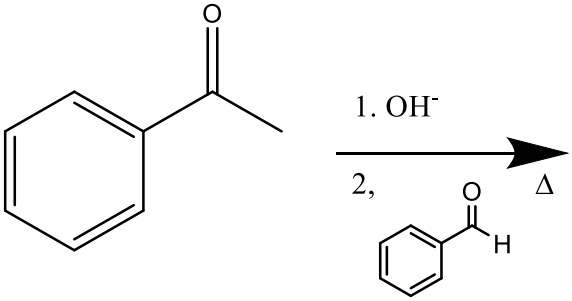

b. 

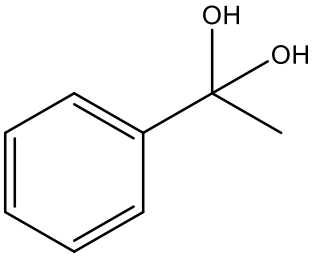

c. 

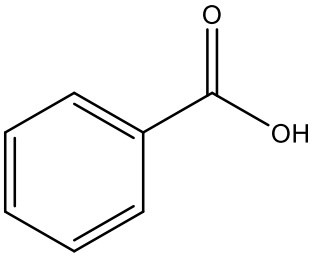

d. 

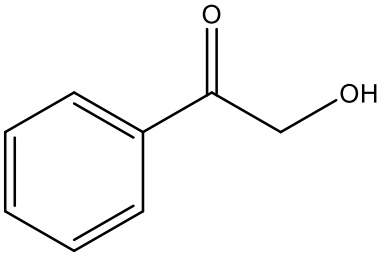

e. 

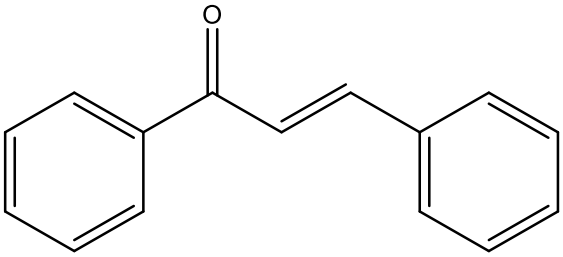
18. Tentukan produk dari reaksi berikut!

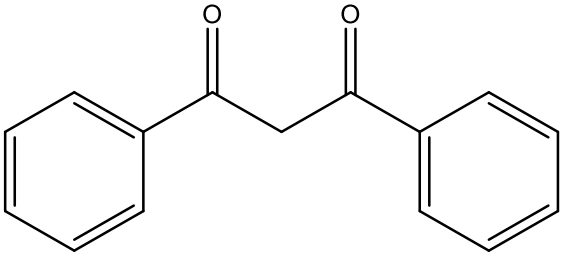



a. 

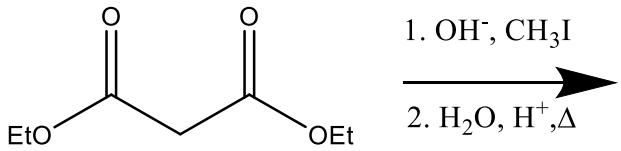

b. 

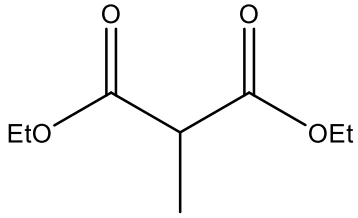

c. 

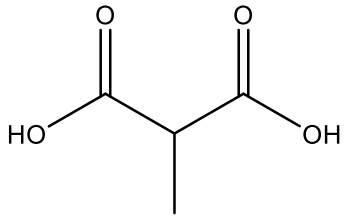

d. 

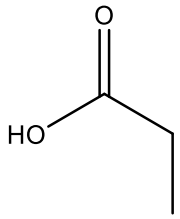

e. 

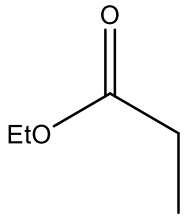
19. Tentukan produk dari reaksi berikut!

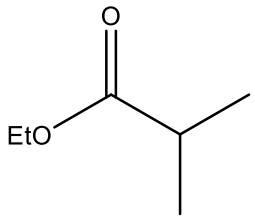



a. 

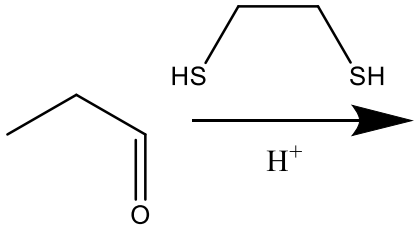

b. 

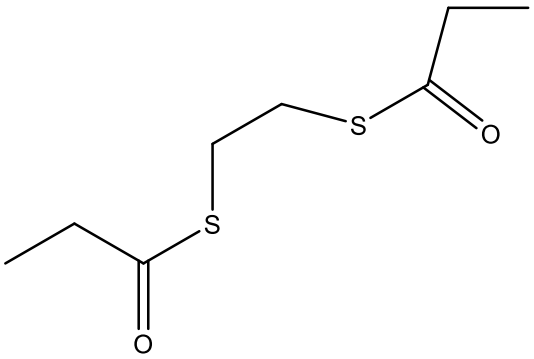

c. 

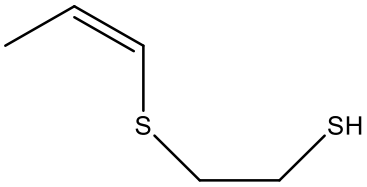

d. 

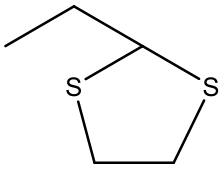

e. 

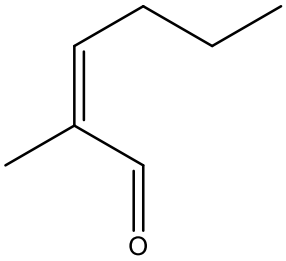

20. Tentukan produk dari reaksi berikut!

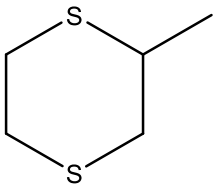


a. 

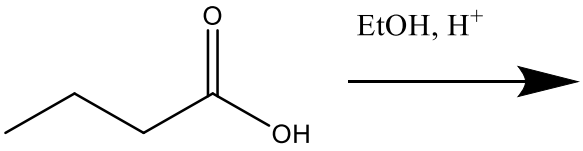

b. 

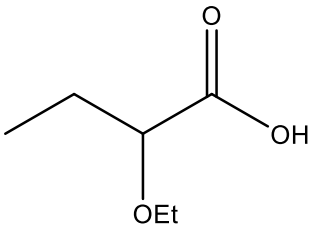

c. 

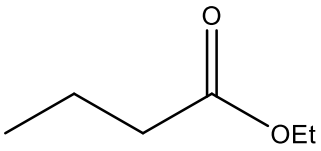

d. 

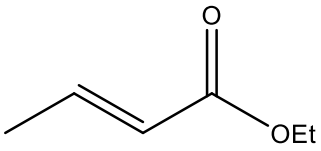

e. 

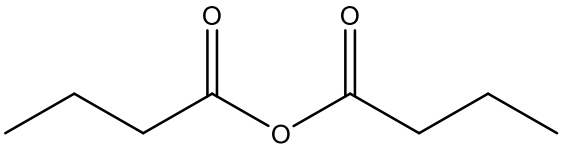

21. Tentukan produk dari reaksi berikut!

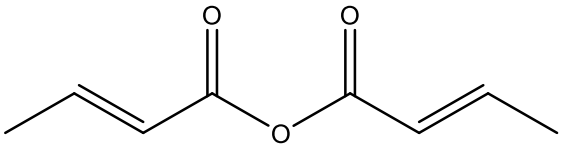



a. 

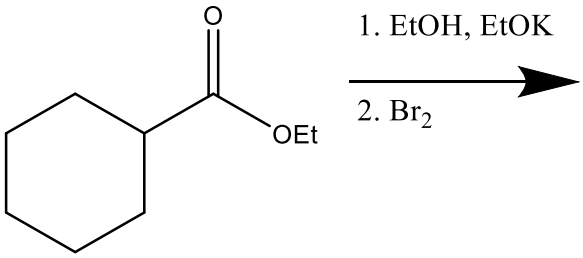
b. 

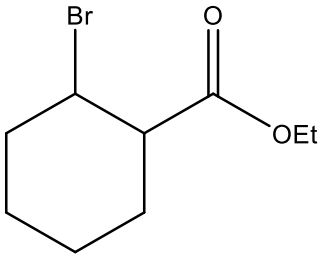

c. 

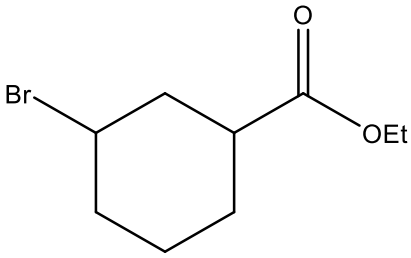

d. 

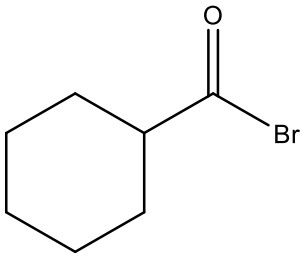

e. 

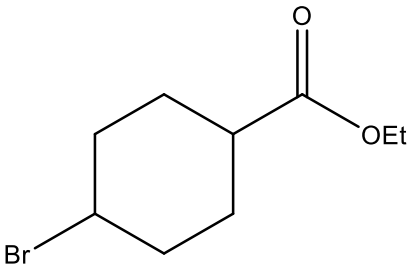

22. Tentukan produk dari reaksi berikut!

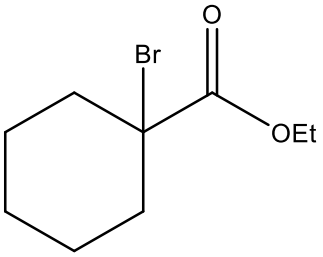



a. 

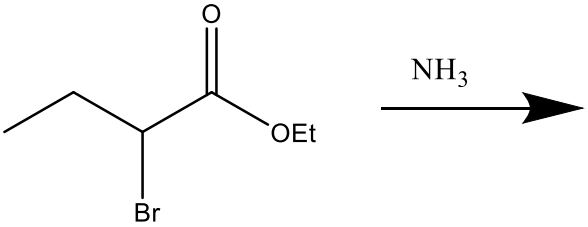

b. 

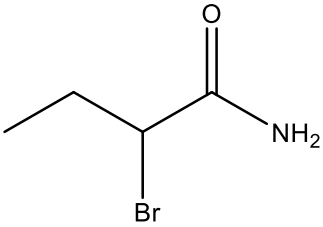

c. 

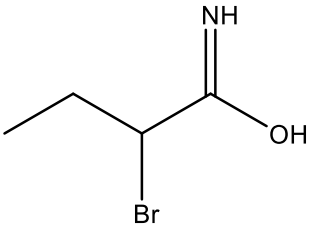
d. 

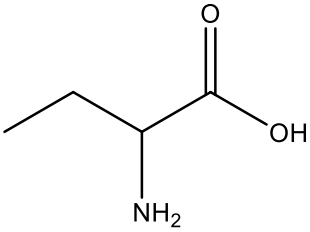

e. 

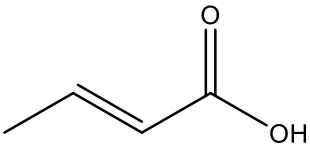

23. Tentukan produk dari reaksi berikut!

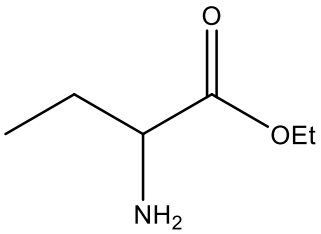



a. 

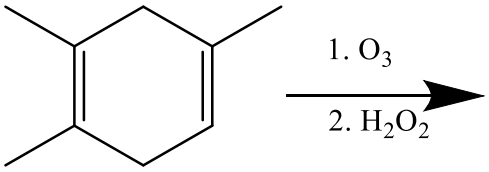

b. 

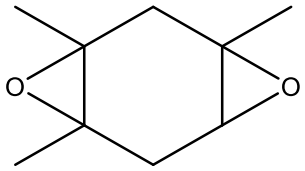

c. 

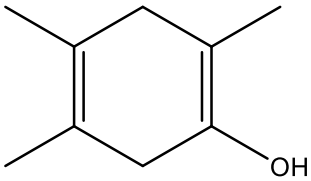

d. 

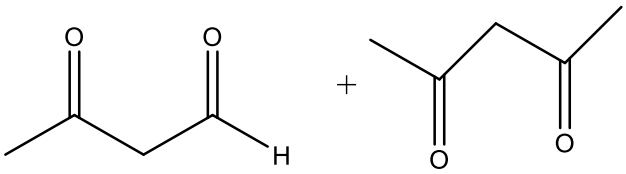
e. 

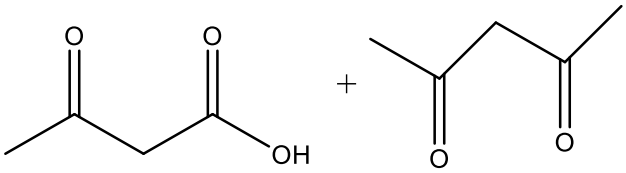

24. Tentukan produk dari reaksi berikut!

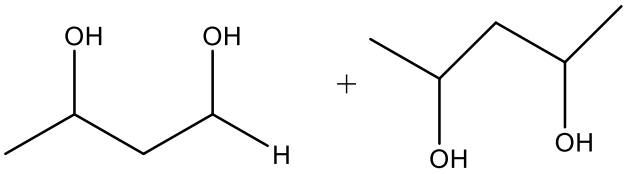



a. 

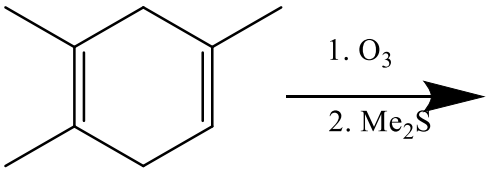

b. 

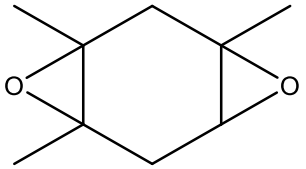

c. 

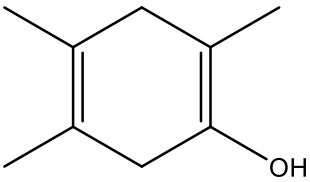

d. 

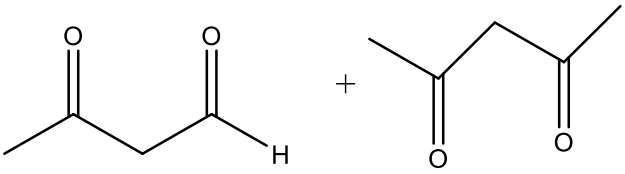

e. 

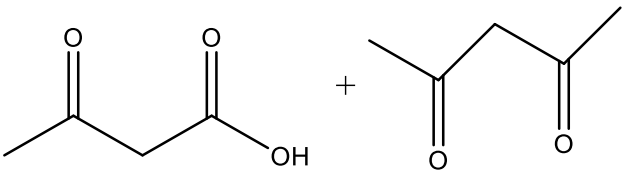

25. Tentukan produk dari reaksi berikut!

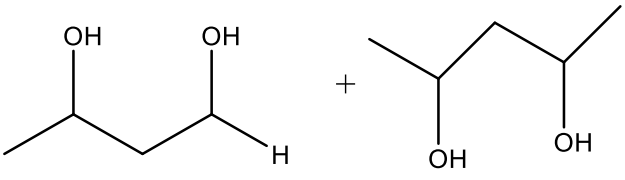


a. 

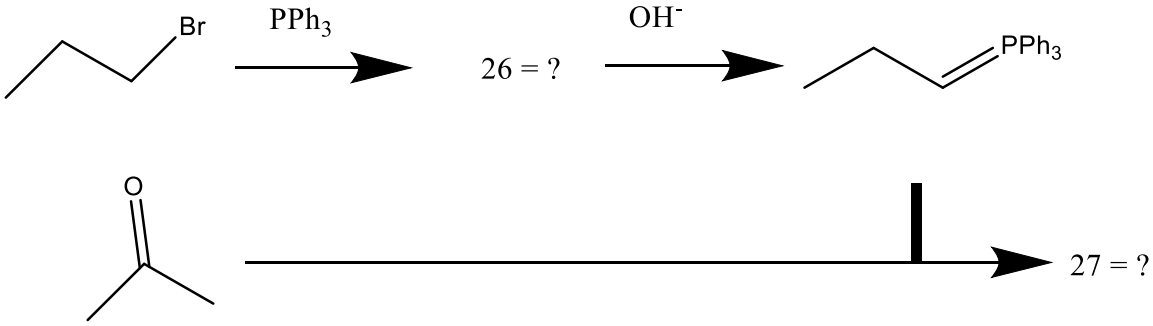

b. 


c. 

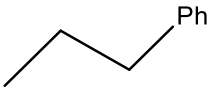

d. 

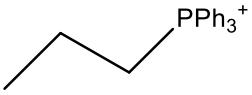

e. 

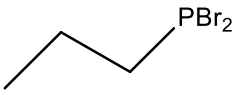

**Perhatikan gambar di bawah.**

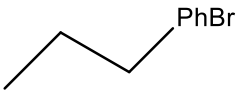


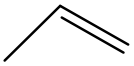

26. Tentukan senyawa yang sesuai untuk melengkapi bagan di atas!

a. 

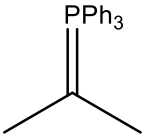

b. 

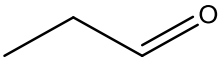

c. 

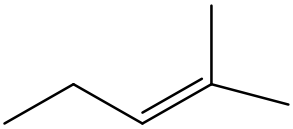

d. 

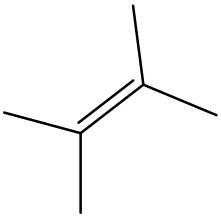
e. 

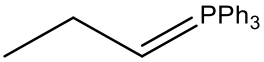
27. Tentukan senyawa yang sesuai untuk melengkapi bagan di atas!

a. 

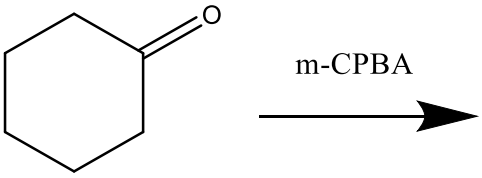

b. 

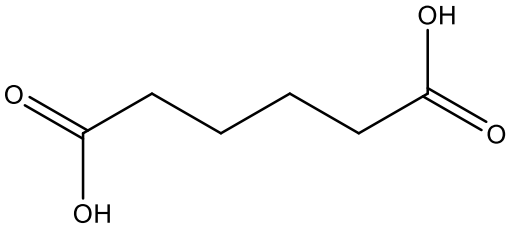

c. 

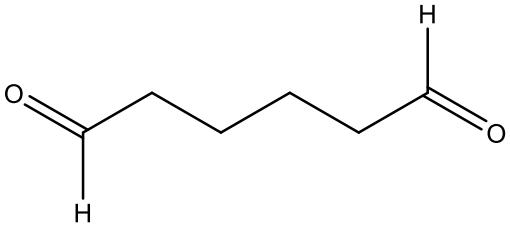
d. 

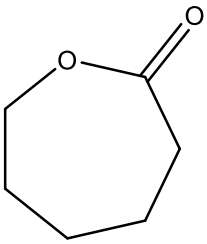
e. 

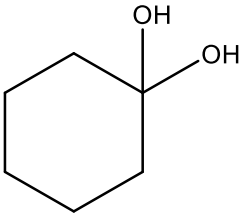

28. Tentukan produk dari reaksi berikut!

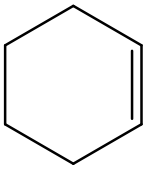



a. 

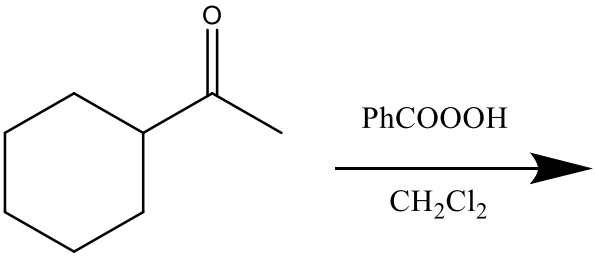

b. 

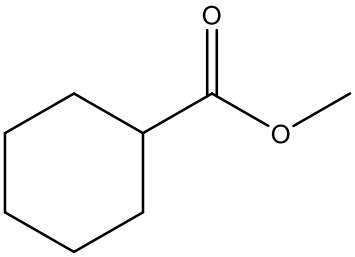
c. 

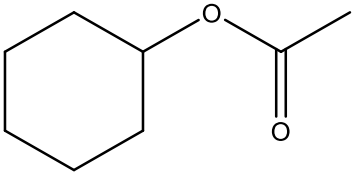
d. 

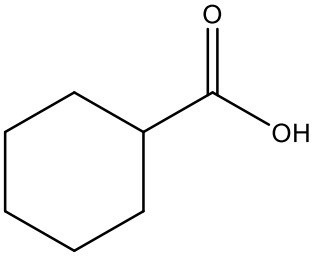
e. 

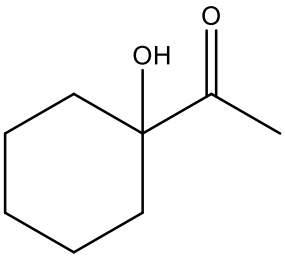
29. Tentukan produk dari reaksi berikut!

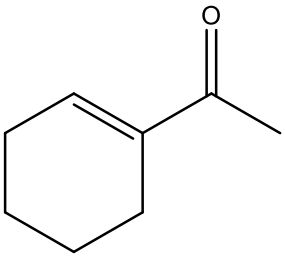



a. 

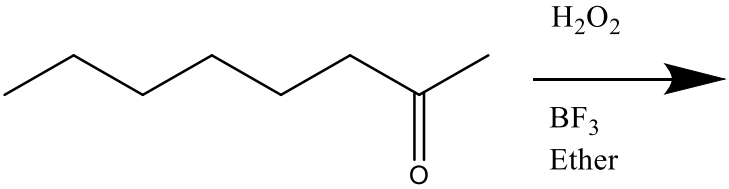
b. 

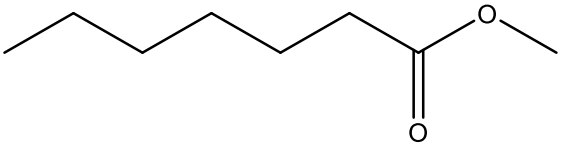
c. 

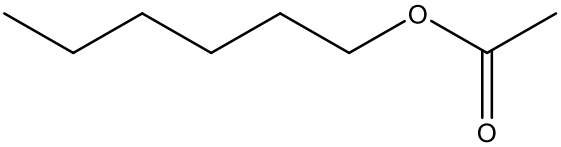
d. 

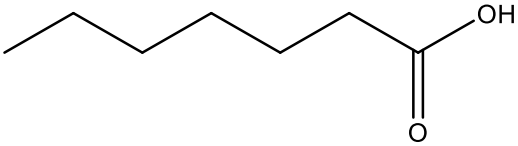

e. 

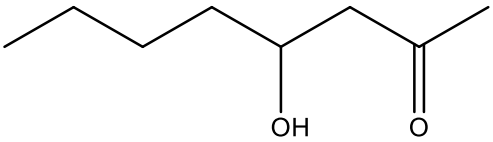

30. Tentukan produk dari reaksi berikut!

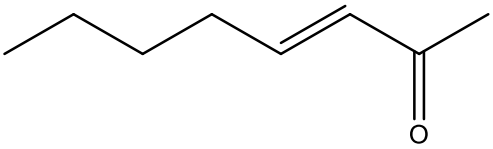



a. 


b. 


c. 


d. 


e.