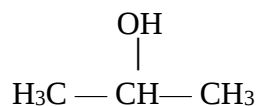


Gabarito de Química

3º EM, Volume 4

1.

a) Fórmula molecular: C_3H_8O . Fórmula estrutural plana:



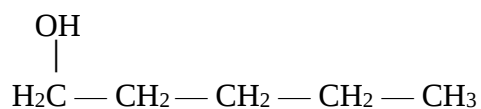
b) Propan-2-ol

c) Álcool isopropílico

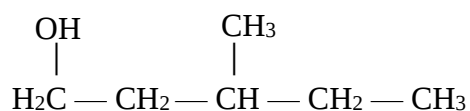
d) Álcool secundário

2.

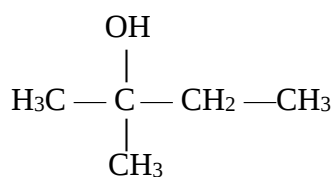
a)



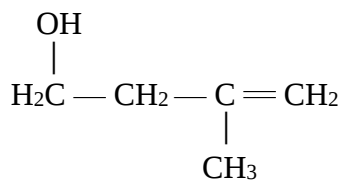
b)



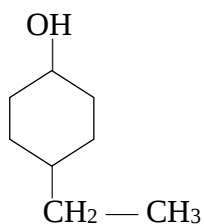
c)



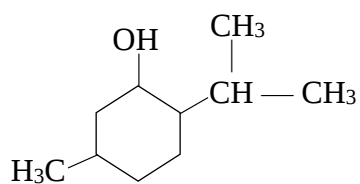
d)



e)



3. Fórmula molecular: $C_{10}H_{20}O$. Fórmula estrutural plana:



4. I) Pentan-3-ol; II) 3-metil-butan-2-ol

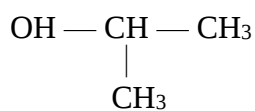
5.

a) $HO - CH_3$; Metanol

b) $HO - CH_2 - CH_3$; Etanol

c) $HO - CH_2 - CH_2 - CH_3$; Propanol

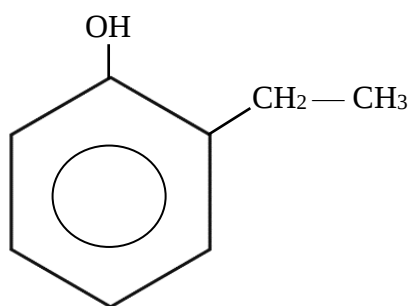
d) Propan-2-ol:



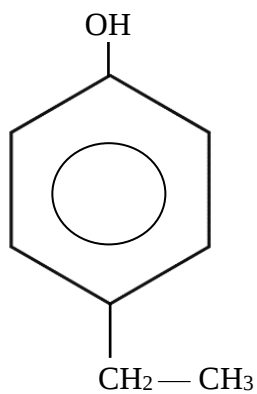
6. Porque o fenol é tóxico e corrosivo.

7.

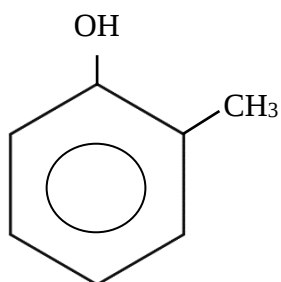
a)



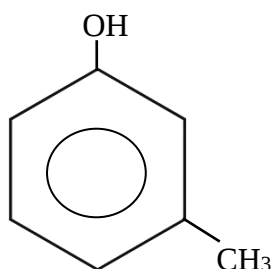
b)



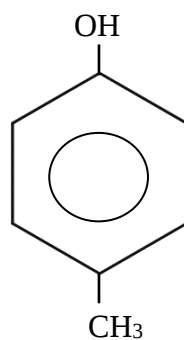
8.



o-metilfenol



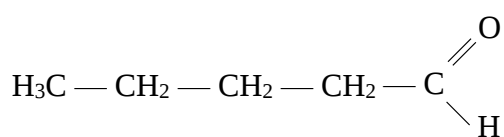
m-metilfenol



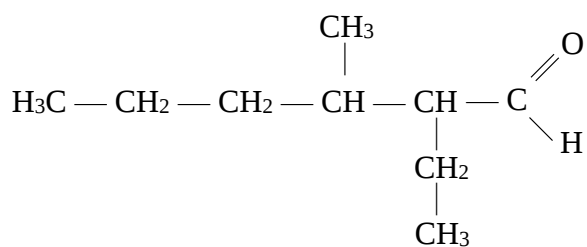
p-metilfenol

9.

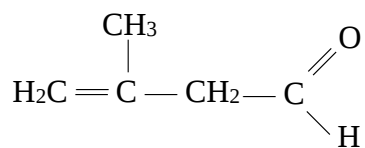
a)



b)

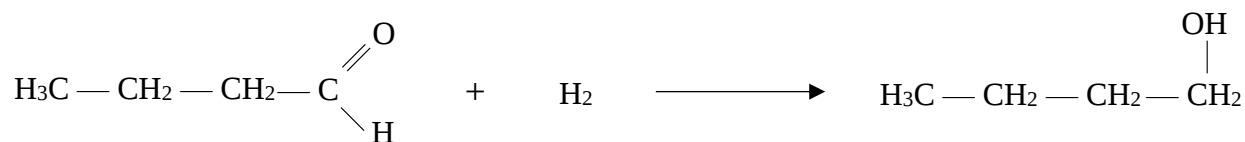


c)



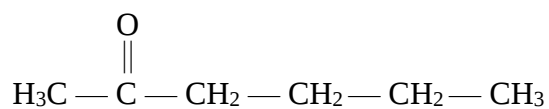
10. I) 4-metilpentanal; II) Butanodial.

11.

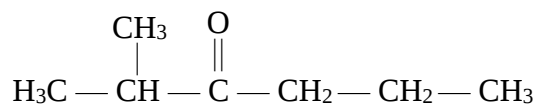


12.

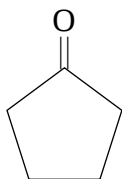
a)



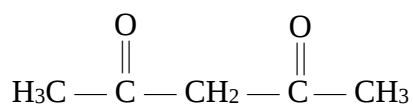
b)



c)



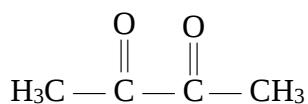
d)



13. I) Heptan-2-ona; II) Heptan-3-ona; III) Heptan-4-ona; IV) Pentan-2-ona

14.

a)

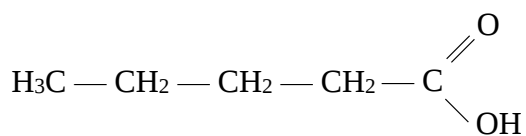


b) $\text{C}_4\text{H}_6\text{O}_2$

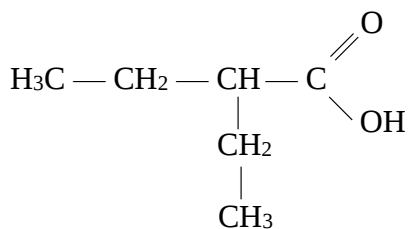
c) Butanodiona ou butano-2,3-diona

15. Escreva em seu caderno as fórmulas estruturais planas dos ácidos carboxílicos:

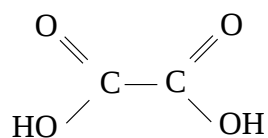
a)



b)

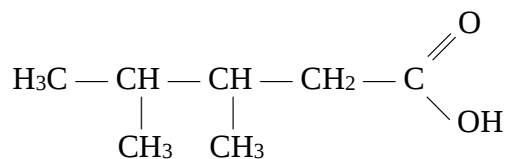


c)



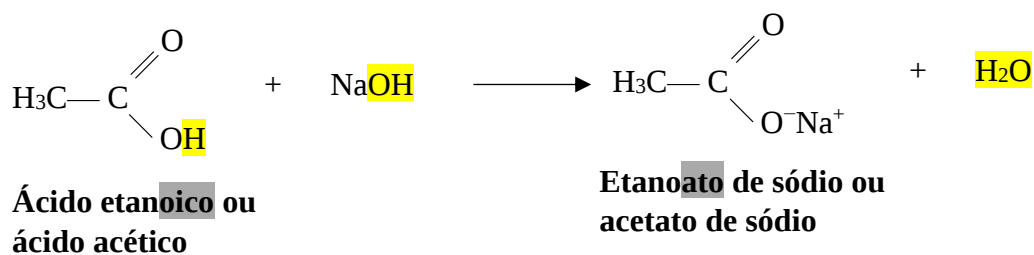
16. I) Ácido hexanoico; II) Ácido butanodioico.

17. Ácido 3,4-dimetilpentanoico:



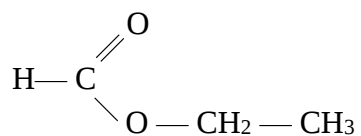
18. Ácido 3-metil-hex-2-enoico

19.

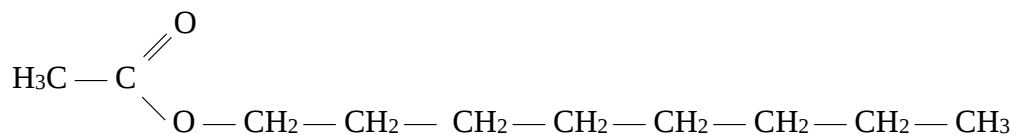


20.

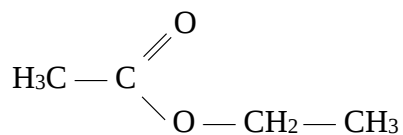
- Metanoato de etila:



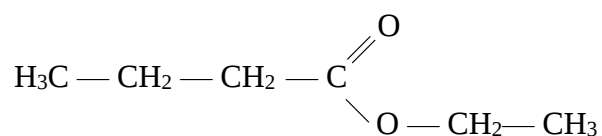
- Etanoato de octila:



- Acetato de etila:



- Butanoato de etila



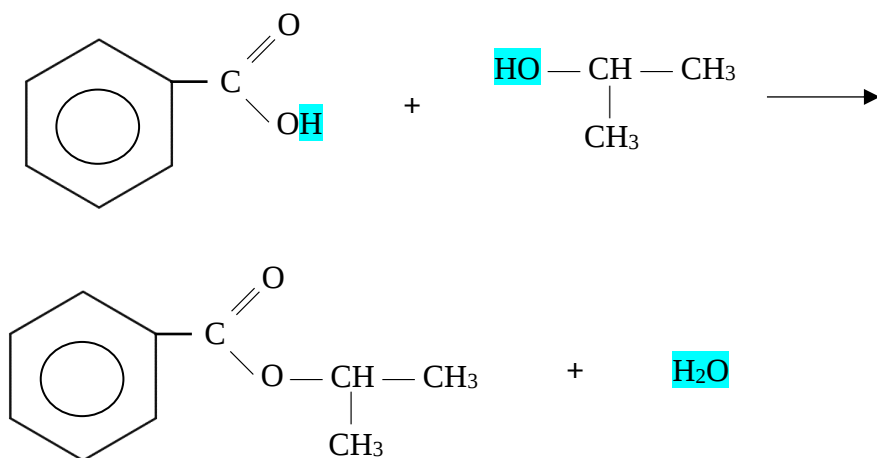
21.

a) Etanoato de metila

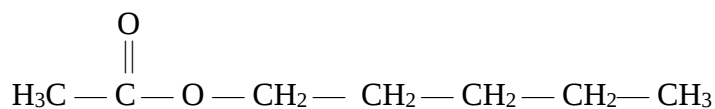
b) Metanoato de etila

c) Butanoato de propila

d) Benzoato de isopropila, pois:



22. Etanoato de pentila ou acetato de pentila:



23. Escreva em seu caderno as fórmulas estruturais planas dos éteres:

a) $\text{H}_3\text{C}-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_3$

b) $\text{H}_3\text{C}-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3$

c) $\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_3$

d) $\text{H}_3\text{C}-\text{CH}_2-\text{O}-\text{H}_3\text{C}-\text{CH}_2-\text{O}$

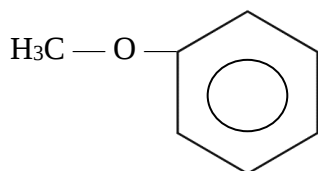
e) $\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_3$

24.

I) $\text{H}_3\text{C}-\text{O}-\text{CH}_3$; Metoximetano.

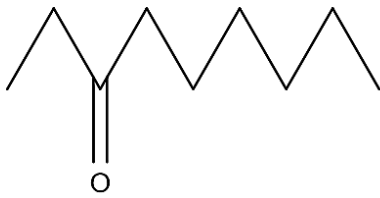
II) $\text{H}_3\text{C}-\text{O}-\text{CH}_2-\text{CH}_3$; Metoxietano

III) Metoxibenzeno:

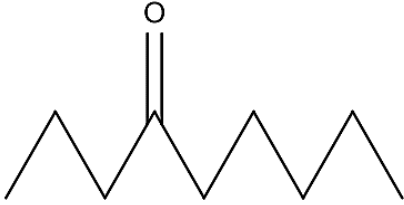


25. a)

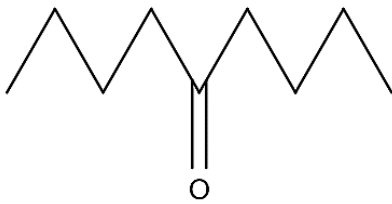




nonan-3-one



nonan-4-one



nonan-5-one

b) Nonan-5-one