

Resoluções

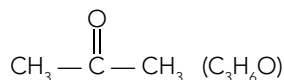
Capítulo 11

Estudo das funções oxigenadas I – Alcoóis, fenóis, éteres e cetonas

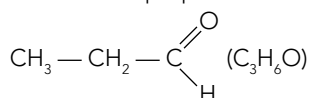
ATIVIDADES PARA SALA

01 D

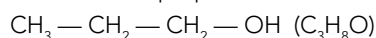
- Estudante 1: propanona



- Estudante 2: propanal

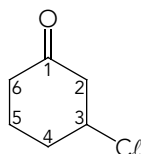


- Estudante 3: propan-1-ol



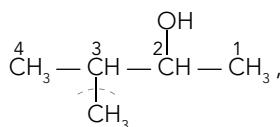
02 E

O nome sistemático (IUPAC) do composto é 3-clorocicloexanona.

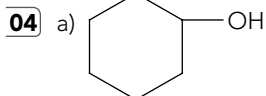


03 C

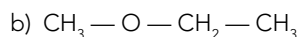
O álcool isopropil-metilcarbinol, cuja fórmula é



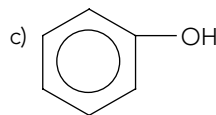
tem como nome oficial 3-metilbutan-2-ol.



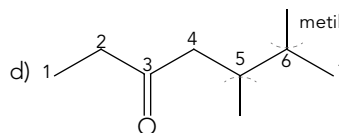
Função: álcool
Nome (IUPAC): cicloexanol



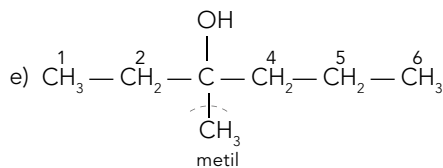
Função: éter
Nome (IUPAC): metoxietano
Usual: éter etílico e metílico



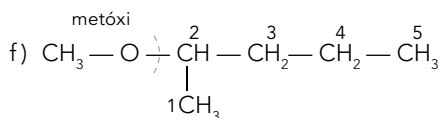
Função: fenol
Nome (IUPAC): hidroxibenzeno



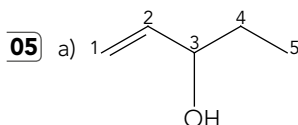
Função: cetona
Nome (IUPAC): 5,6-dimetileptan-3-ona



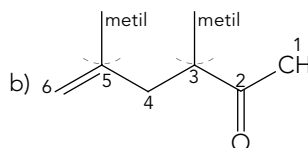
Função: álcool
Nome (IUPAC): 3-metilexan-3-ol
Nome (Kolbe): etil-metil-propilcarbinol



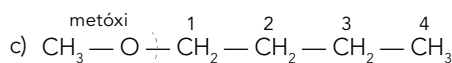
Função: éter
Nome (IUPAC): 2-metoxipentano



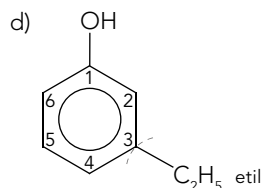
IUPAC: pent-1-en-3-ol



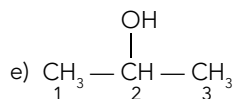
IUPAC: 3,5-dimetilpent-5-en-2-ona



IUPAC: 1-metoxibutano
Usual: éter butílico e metílico

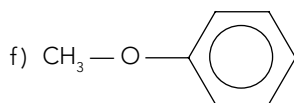


IUPAC: 3-etil-1-hidroxibenzeno



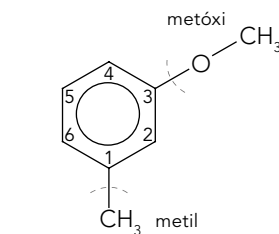
IUPAC: propan-2-ol

Usual: álcool isopropílico

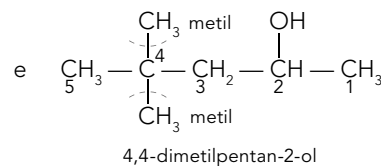


IUPAC: metoxibenzeno

Usual: éter fenílico e metílico



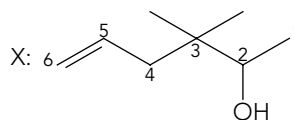
meta-metóxi-metilbenzeno



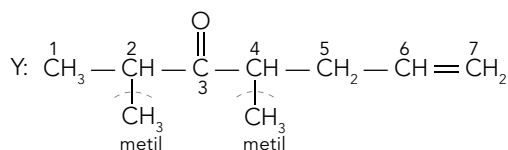
4,4-dimetilpentan-2-ol

04 A

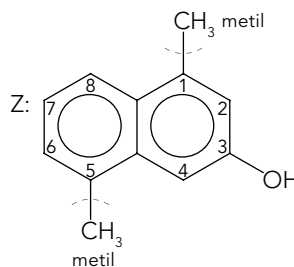
Os nomes dos compostos X, Y e Z são dados a seguir.



3,3-dimetilex-5-en-2-ol



2,4-dimetilept-6-en-3-ona



1,5-dimetil-3-hidroxinaftaleno

05 D

As fórmulas dos compostos 1, 2, 3 e 4 equivalem, respectivamente, às funções: cetona, éter, álcool e fenol. Assim, a correspondência correta entre as fórmulas e as funções é:

(2) Éter ($\text{CH}_3 - \text{O} - \text{CH}_3$)

(4) Fenol ()

(3) Álcool ($\text{CH}_3 - \text{CH} - \text{CH}_3$)

(1) Cetona ($\text{CH}_3 - \text{C} = \text{O} - \text{CH}_3$)

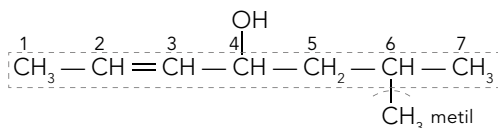
06 C

Com a fórmula molecular $\text{C}_7\text{H}_8\text{O}$, são possíveis os seguintes fenóis:



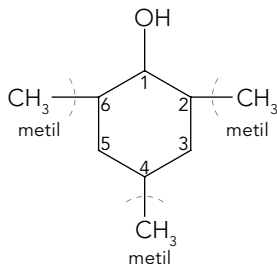
ATIVIDADES PROPOSTAS

01 C



O nome oficial do composto é 6-metilept-2-en-4-ol.

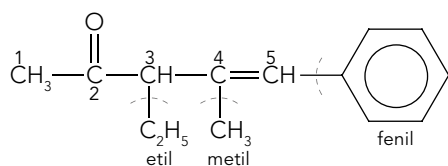
02 E



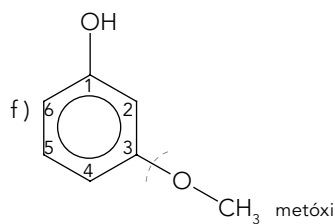
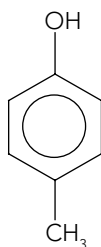
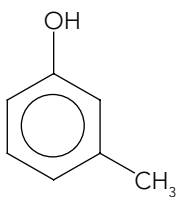
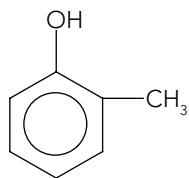
O nome do composto é 2,4,6-trimetilcicloexanol.

03 A

As fórmulas estruturais correspondentes aos nomes são, respectivamente:

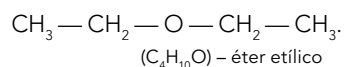
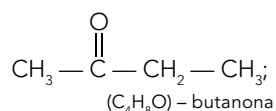
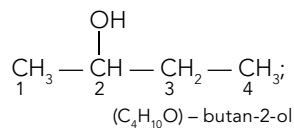


3-etil-5-fenil-4-metilpent-4-en-2-ona

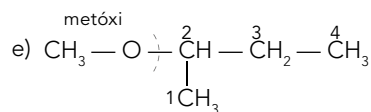
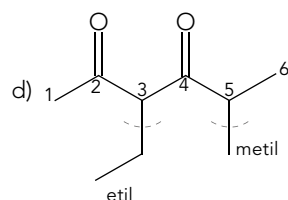
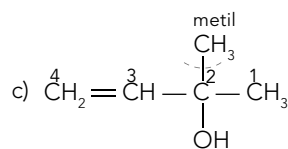
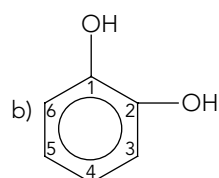
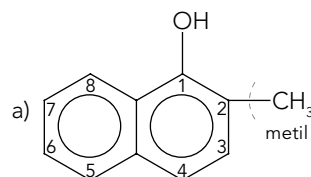


07 D

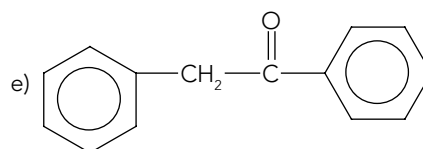
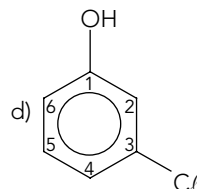
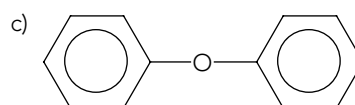
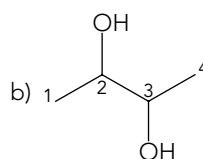
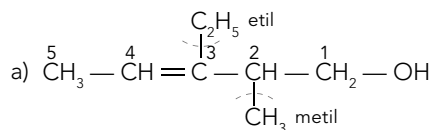
Os compostos butan-2-ol, butanona e éter etílico apresentam, respectivamente, as seguintes fórmulas moleculares:



08



09



10

