IN DEPTH

Organic formula of 3.795 mg of a liquid A containing C, H, and O gave The complete combustion of H₂O.

The complete combustion of A gave of CO₂ and 3.969 mg of H₂O. The complete and 3.969 mg of H₂O.

petermine the empirical formula of A. Determine the employer mass of A is 88 g.mol⁻¹. Deduce the molecular formula of A.

Knowing that A belongs to the carbonyl compounds. Write two possible Knowing that A belongs to the carbonyl compounds. Write two possible condensed knowing formulas of A of your choice. Knowing formulas of A of your choice,

Molar mass in a mol-1. It given: Molar mass in g.mol⁻¹: H = 1; C = 12; O = 16.

dentification of a functional group Ouantitative organic analysis of compound A formed of C, H and O gave the mass percentages: C = 60 % and H = 13.3 %. Quantitative control of A C = 60% and C = 13.3%.

Output the molecular formula of A C = 13.3%.

powing mass percentage of A, knowing that its molar mass is 60 g.mol⁻¹. Determine the molecular formula of A, knowing that its molar mass is 60 g.mol⁻¹. Molar mass in g.mol⁻¹: H = 1; C = 12; O = 16Determine the Molar mass in g.mol⁻¹: H = 1; C = 12; O = 16.

Given: Works
The following two condensed structural formulas of A are given:

CH₃-CH₂-CH₂-OH and CH₃-CH₄

2.1. Verify if these two formulas correspond to two possible isomers of A. 2.1. Verily a Lidentify A knowing that it belongs to the family of ethers.

The purple is extracted from the murex, a marine shell. The percentage by mass of 39. The purple the purple is the following (Document 1):

C: 45.7% H: 1.90%

> 0:7.60% Br: 38.1 %

N: 6.7%.

Document 1

- 1. Verify if the purple contains another element than those mentioned above.
- 2. Determine the empirical formula of purple.

Given: Molar masses in g.mol⁻¹: C = 12; H = 1; O = 16; N = 14; Br = 80.

3. Knowing that the purple contains 2 atoms of Br. Deduce its molecular formula.

30. Functional Groups

The following organic molecules are given: A, B, C, D and E.

Cocke the functional group and name the family of each of the preceding molecules.

Cocke the functional group and name the largest mass percentage of oxygens.

Cocke the functional group and name the largest mass percentage of oxygens. Conte the functional group and the largest mass percentage of oxygens have been assessed at the molecules whose number of hydrogen atoms is double than a whose of the molecules whose number of hydrogen atoms is double than a whose of the molecules whose number of hydrogen atoms is double than a state the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the molecules whose number of hydrogen atoms is double than a state of the hydrogen atoms is double than a state of the hydrogen atoms. Corke the function molecules has the largest mass percentage of oxygens Julian Specific the number of hydrogen atoms is double than a whose number of hydrogen atoms is double than a monochlorinated all. Month by mass of the chlorine and the alkane, is equal to 33.33.

The by mass of the chlorine and the alkane, is equal to 33.33.

The by mass perween the chlorine and formula of (A) is C₅H₁₁Ct The by mass of the chlorine in a monoconormated alkane A, of the chlorine and the alkane, is equal to 33.33.

The by mass between the chlorine and the alkane, is equal to 33.33.

The by mass between the chlorine and the alkane, is equal to 33.33.

The by mass of the molecular formula of (A) is C₅H₁₁Ct abstraction reaction netween formula of (A) is C₃H₁₁C₄.

Show that the molecular formula structural formula formula show that the molecular formula structural formula. the by the possible condensed structural formula of A which have write the possible condensed formula of A which have write the possible condensed structural formula of A which has 2 methyl groups. write the possible conwrite the possible conalkyl group as a branch.

Write the condensed structural formula of A which has 2 methyl groups as b_{ranch} .

Write the condensed structural c_{ranch} : c_{ran Write the condensed structural C = 12; C =Identification of a hydrocarbon C_xH_y gives, after complete combustion of the Avolume V of a gaseous hydrocarbon C_xH_y gives, after complete combustion of the Avolume V of CO_2 (g) and H_2O (g). 32. Identification of a hydrocarbon A volume V of CO₂ (g) and H₂O (g).

same volume V of CO₂ (g) and H₂O (g).

Write the equation of the reaction of the complete combustion of this hydrocarbon.

I. Write the equation of the reaction of the complete combustion of this hydrocarbon. Show that y = 2x
 Show that y = 2x
 Determine the molecular formula for this hydrocarbon, given that V '= 5V.
 the family to which this hydrocarbon belongs. Determine the fine state of the family to which this hydrocarbon belongs.
 Identify the family to which this hydrocarbon belongs. Take the molar volume V_m . 33. Elemental analysis of vitamin C Elemental and Some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and some Vegetable Ascorbic acid or vitamin C, is very common in foods like fruits and vitamin C, is very common in foods like fruits and vitamin C, is very common in foods like fruits and vitamin C, is very co Ascorbic acid of vital The combustion of 1.94 g of this organic substance gives 2.9084 g of the gas which disturbs lime water and 0.795 g of H₂O. $M_C = 12 \text{ g.mol}^{-1}$; $M_O = 16 \text{ gmol}^{-1}$; $M_H = 1 \text{ g.mol}^{-1}$ 1. Identify the gas that disturbs the lime water.

2. Determine, by referring to document 1, the percentage by mass of carbon at hydrogen in this substance.

3. Verify if there is a 3rd element in this substance other than C and H.

4. Deduce the mass percentage of this element knowing that it is oxygen.

Determine the empirical formula for ascorbic acid.

A more advanced study of this substance shows that a mass of 1.76 g corresponds a quantity of matter (number of mole) of 0.01 mol. Deduce the molecular formula vitamin C.

14. Paraceta Paracetan antipyretic an The com

and 2.81 $M_c = 12$

The analys to the form $V_m = 24 L$ $M_N = 148$

1. By re hydro

2. By re eleme

3. Dedu A ma

4.1.

4.2.

35. AC

The elemen

Qu

A 17

M



