

CHEMISTRY MULTIPLE CHOICE QUESTIONS

A. Atoms, molecules and stoichiometry

2002 -2019



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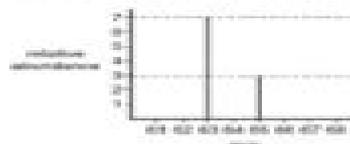
As a combustion, an alkane burns can be considered to have a fully flat of 1.80 kg of carbon dioxide compound formula CO_2 .

Which mass of carbon dioxide does a person produce each day if all the carbon dioxide were to be captured and recycled?

- A 0.207 kg B 0.800 kg C 1.30 kg D 0.34 kg

(2002 NA/12)

The diagram shows the mass spectrum of a sample of naturally-occurring copper.



What is the relative atomic mass of this copper?

- A 63.2 B 63.5 C 63.8 D 64.0

(2002 NA/12)

Which pairs of compounds have the same empirical formula?

- ethane and ethene
- ethane and cyclohexane
- cyclohexane and oct-1-ene

(2002 NA/12)

A stream of 10cm^3 of methane and 10cm^3 of ethane was sparked with an excess of oxygen. After cooling to room temperature, the residual gas was passed through aqueous potassium hydroxide.

Which compounds have the empirical formula CH_2O ?

- methanol
- ethanoic acid
- methyl methanoate

(2002 NA/12)

What is the number of molecules in 500 cm^3 of oxygen under room conditions?

- A 1.25×10^{23}
- B 1.25×10^{24}
- C 3.0×10^{23}
- D 3.0×10^{24}

(2004 M/12)

In the preparation of soft margarine, glycerol trioleate



is fully hydrogenated so that, on average, one of its side-chains is converted into the $\text{CH}_3(\text{CH}_2)_7\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{C}_2\text{H}_5$ moiety and two side-chains are converted into the $\text{CH}_3(\text{CH}_2)_7\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{C}_2\text{H}_5$ moiety.

How many moles of hydrogen are required to convert one mole of glycerol trioleate into the soft margarine?

- A 4 B 5 C 6 D 8

(2008 M/12)

Use of the Data Booklet is relevant to this question.

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