

Name:

Class:

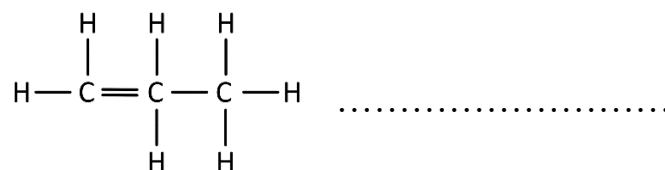


Calcium nitrate contains the ions Ca^{2+} and NO_3^- .

Give the formula of calcium nitrate.

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Name the following compound.



The table shows the percentage composition of a sample of magnesium.

Isotope	^{24}Mg	^{25}Mg	^{26}Mg
Percentage (%)	78.6	10.1	11.3

Calculate the relative atomic mass of magnesium. Give your answer to one decimal place.

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The molecular formula of butene is C_4H_8 .

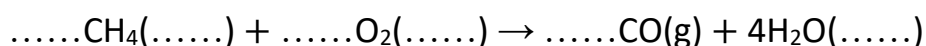
What is the empirical formula of Butene?

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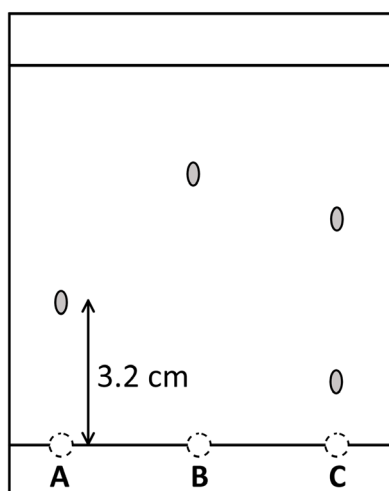
State the formula of a sulfate ion.

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Complete and balance the equations for the reactions that occur by writing the appropriate state symbol after each formula.



A student investigated the colours in three different flowers. The chromatogram below shows the student's results.



Colour A has an R_f value of 0.65

Colour A moves 3.2 cm

Calculate the distance moved by the solvent.

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Distance moved by the solvent: cm