

Percent Composition from the Chemical Formula

Name

$$\% \text{ by mass} = \frac{\text{mass of element in one mole}}{\text{molar mass of compound}} \times 100$$

Write all numbers with
one decimal place

00.0

Find the percent compositions of all the elements in the following compounds:

NaOH				
element	#Atoms	Molar mass	Total	% of composition by mass
Na				
O				
H				
molar mass of compound				Total=100%

(NH ₄) ₂ S				
element	#Atoms	Molar mass	Total	% of composition by mass
N				
H				
S				
molar mass of compound				Total=100%



C ₁₂ H ₂₂ O ₁₁				
element	#Atoms	Molar mass	Total	% of composition by mass
molar mass of compound				Total=100%

CH ₃ COOH				
element	#Atoms	Molar mass	Total	% of composition by mass
molar mass of compound				Total=100%

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