

Answer Key

Check both the simplest whole-number ratio and the molar-mass multiplier.

Question	Empirical formula	Molecular formula
1	CH_2O	$\text{C}_6\text{H}_{12}\text{O}_6$
2	CH_2	C_4H_8
3	CH	C_6H_6
4	NO_2	N_2O_4
5	HO	H_2O_2
6	$\text{C}_2\text{H}_4\text{O}$	$\text{C}_4\text{H}_8\text{O}_2$
7	$\text{C}_2\text{H}_5\text{O}$	$\text{C}_4\text{H}_{10}\text{O}_2$
8	CHN	$\text{C}_2\text{H}_2\text{N}_2$
9	P_2O_5	P_4O_{10}
10	CH_4O	$\text{C}_2\text{H}_8\text{O}_2$