

$$\begin{array}{l}
 \text{C} \quad \frac{4.8}{12 \text{ g/mol}} = 4 \quad = \quad \frac{40}{0.3} = 13 \\
 \text{H} \quad \frac{4}{1 \text{ g/mol}} = 4 \quad = \quad \frac{4}{0.3} = 13 \\
 \text{N} \quad \frac{22.4}{14 \text{ g/mol}} = 1.6 \quad = \quad \frac{16}{0.3} = 5 \\
 \text{S} \quad \frac{32}{32 \text{ g/mol}} = 1 \quad = \quad \frac{32}{0.3} = 1 \\
 \text{O} \quad \frac{12.8}{16 \text{ g/mol}} = 0.8 \quad = \quad \frac{8}{0.3} = 27
 \end{array}$$

$$\text{C} \quad 12 \times 13 = 156$$

$$\text{H} \quad 1 \times 13 = 13$$

$$\text{N} \quad 14 \times 5 = 70$$

$$\text{S} \quad 32 \times 1 = 32$$

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$$\frac{1000}{271} = 4 \quad \rightarrow \quad \boxed{\text{C}_{52} \text{H}_{52} \text{N}_{20} \text{S}_4}$$