

Here are some practice problems for the current material dealing with molar masses. As an extra challenge, could anyone identify the substances below?

Calculate the formula masses for the compounds below.

- | | | |
|--------------------------------------|---------------------------------------------------------|--------------------------------------------|
| a) H_3PO_4
98 amu | b) C_4H_{10}
58 amu | c) $\text{Co}(\text{NO}_3)_2$
183 amu |
| d) FeCl_3
161 amu | e) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$
342 amu | f) $\text{Al}_2(\text{SO}_4)_3$
342 amu |

Calculate molar masses for the compounds below.

- | | | |
|------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| a) H_2O
18 g/mol | b) H_2SO_4
98 g/mol | c) $\text{C}_6\text{H}_{12}\text{O}_6$
180 g/mol |
| d) $\text{C}_7\text{H}_8\text{N}_4\text{O}_2$
180 g/mol | e) $(\text{Na})\text{C}_{11}\text{H}_{18}\text{N}_2\text{O}_3$
249 g/mol | f) $(\text{C}_5\text{H}_5\text{N})_4\text{Cu}(\text{NCS})_6$
728 g/mol |

Calculate the mass of the following compounds.

- | | | |
|---------------------------|--------------------------------------------------|-----------------------------------------|
| a) 1.00 mol NaCl
58 g | b) 2.00 mol MgBr_2
368 g | c) 0.50 mol CCl_4
76 g |
| d) 3.60 mol NaOH
144 g | e) 0.710 mol $\text{Ca}(\text{CN})_2$
65.32 g | f) 1.82 mol BaSO_4
424.06 g |

Calculate the number of moles of the following compounds.

- | | | |
|-------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| a) 88 g CO_2
2.00 moles | b) 198 g $\text{C}_2\text{H}_{12}\text{O}_6$
1.5 moles | c) 65.25 g LiBr
0.75 moles |
| a) 249g NaOH
6.225 moles | b) 878g $\text{NaAlSi}_3\text{O}_8$
3.35 moles | c) 7,327g $\text{Cu}_2\text{FeSnS}_4$
17.00 moles |

24 Practice Problems Chemistry

Michael R. Lindeburg



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