

Name: ETTS

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Balancing Equations

Balance the following chemical equations.

- $\underline{\quad} \text{SiCl}_4(\text{l}) + \underline{2} \text{H}_2\text{O}(\text{l}) \rightarrow \underline{\quad} \text{SiO}_2(\text{s}) + \underline{4} \text{HCl}(\text{aq})$
- $\underline{2} \text{As} + \underline{6} \text{NaOH} \rightarrow \underline{2} \text{Na}_3\text{AsO}_3 + \underline{3} \text{H}_2$
- $\underline{\quad} \text{Au}_2\text{S}_3 + \underline{3} \text{H}_2 \rightarrow \underline{2} \text{Au} + \underline{3} \text{H}_2\text{S}$
- $\underline{\quad} \text{V}_2\text{O}_5 + \underline{6} \text{HCl} \rightarrow \underline{2} \text{VOCl}_3 + \underline{3} \text{H}_2\text{O}$
- $\underline{3} \text{Hg}(\text{OH})_2 + \underline{2} \text{H}_3\text{PO}_4 \rightarrow \underline{\quad} \text{Hg}_3(\text{PO}_4)_2 + \underline{6} \text{H}_2\text{O}$
- $\underline{\quad} \text{SiO}_2 + \underline{4} \text{HF} \rightarrow \underline{\quad} \text{SiF}_4 + \underline{2} \text{H}_2\text{O}$
- $\underline{\quad} \text{Zn} + \underline{2} \text{HCl} \rightarrow \underline{\quad} \text{ZnCl}_2 + \underline{\quad} \text{H}_2$
- $\underline{12} \text{HClO}_4 + \underline{\quad} \text{P}_4\text{O}_{10} \rightarrow \underline{4} \text{H}_3\text{PO}_4 + \underline{6} \text{Cl}_2\text{O}_7$
- $\underline{2} \text{N}_2(\text{g}) + \underline{5} \text{O}_2(\text{g}) + \underline{2} \text{H}_2\text{O} \rightarrow \underline{4} \text{HNO}_3(\text{aq})$
- $\underline{2} \text{NH}_4\text{NO}_3 \rightarrow \underline{2} \text{N}_2 + \underline{2} \text{O}_2 + \underline{4} \text{H}_2\text{O}$