

Hydrates Homework Sheet

1) What is a hydrate?

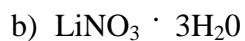
2) Define the following terms as they relate to hydrates:

❖ anhydrate

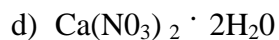
❖ dehydration

3) Write the compound name for the following formulas:











4) Write the formulas for the following compounds:

a) zinc sulphate heptahydrate

b) copper (I) sulphite monohydrate

c) cobalt (II) fluoride tetrahydrate

d) lithium nitrate trihydrate

e) sodium sulphate decahydrate

Write the correct formula for the named compound.

1. zinc sulphate heptahydrate _____
2. copper (I) sulphite monohydrate _____
3. cobalt (II) fluoride tetrahydrate _____
4. lithium nitrate trihydrate _____
5. sodium sulphate decahydrate _____
6. calcium nitrate trihydrate _____
7. calcium sulphate hexahydrate _____
8. sodium phosphate tetrahydrate _____
9. aluminum hypochlorite octahydrate _____
10. cesium carbonate dehydrate _____

Write the correct name for the formula shown.



1. $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ _____
2. $\text{LiNO}_3 \cdot 3\text{H}_2\text{O}$ _____
3. $\text{Cu}_2\text{SO}_3 \cdot 3\text{H}_2\text{O}$ _____
4. $\text{Ca}(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$ _____
5. $\text{NaClO}_4 \cdot \text{H}_2\text{O}$ _____
6. $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ _____
7. $\text{Cs}_2\text{CO}_2 \cdot 2\text{H}_2\text{O}$ _____
8. $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ _____
9. $\text{Na}_3\text{PO}_3 \cdot 4\text{H}_2\text{O}$ _____
10. $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ _____