

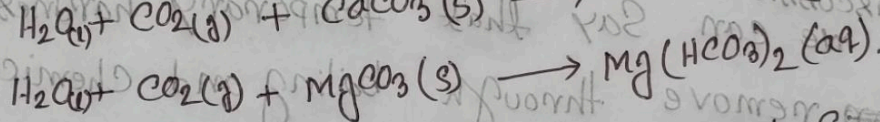
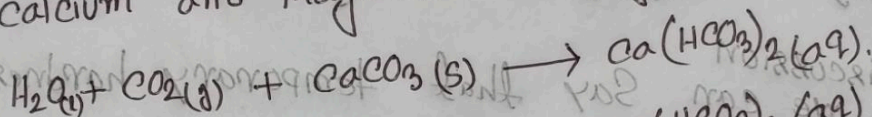
Name: MD. Arif JD: 201-23-969

Answer: Water Hardness is the amount of dissolved calcium and magnesium in the water. There are two types of water hardness:

1. Temporary Hardness.

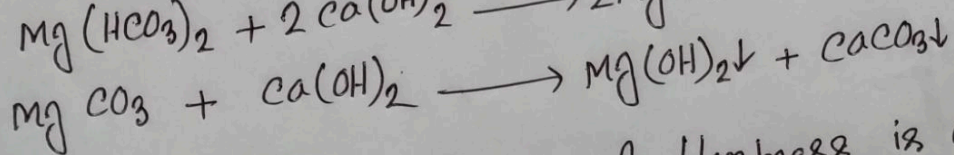
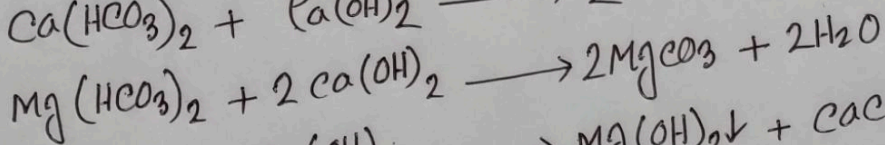
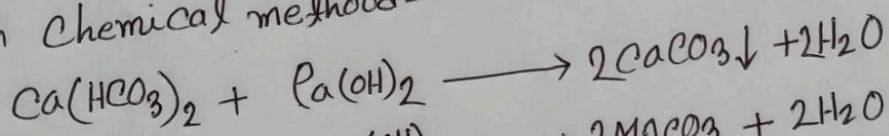
2. Permanent Hardness.

Temporary Hardness: Temporary Hardness is caused by calcium and magnesium hydrogen carbonate.

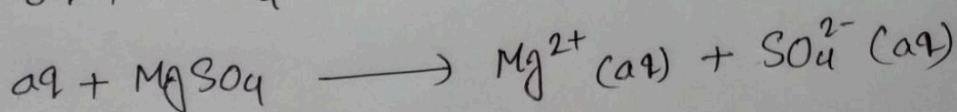
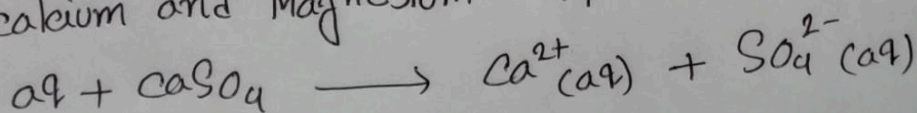


Temporary Hardness can be removed simply by boiling the water and chemical method.

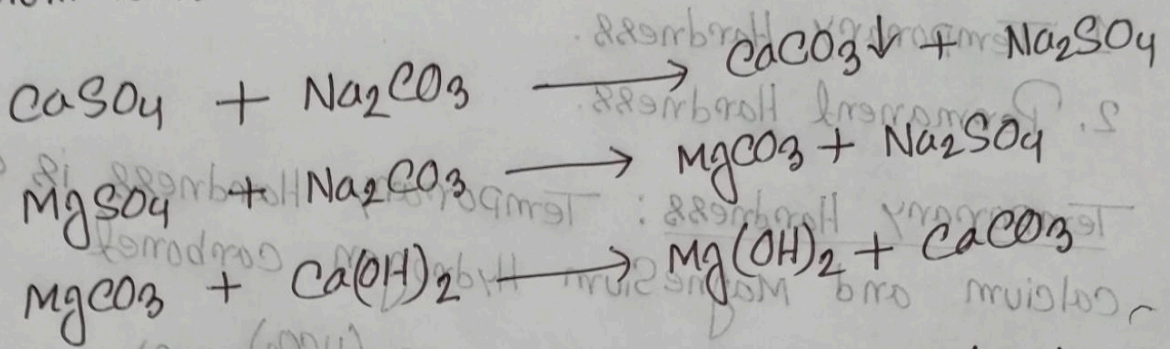
In chemical method-



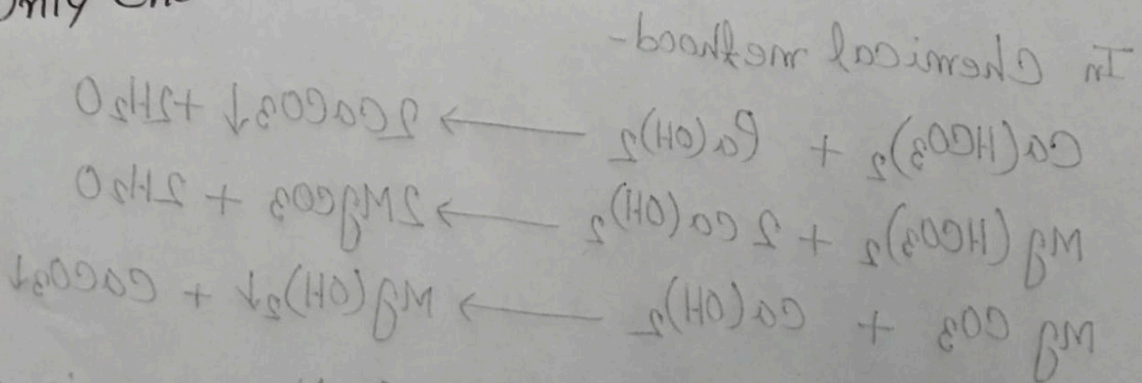
Permanent Hardness: Permanent Hardness is caused by calcium and magnesium sulphate.



Permanent hardness can be removed only by chemical treatment. In this process, sodium carbonate is added to precipitate calcium & magnesium ions as compounds of low solubility.



Above discussion we can say that temporary hardness ~~we can~~ remove through boiling and chemical treatment. but permanent hardness remove only chemical treatment.



Permanent Hardness: Permanent hardness is caused by calcium and magnesium sulphate.