

Distinguish, differentiate, compare and explain what is the difference between Soap and Detergent. Comparison and Differences.

## Differences between Soap and Detergent

S.No.	Soap	Detergent
1	Soaps are sodium or potassium salts of carboxylic acids (fatty acids) that is attached to a long aliphatic chain.	Detergents are sodium salts of long chain benzene sulphonic acids or alkyl sulphates.
2	Soaps are produced by natural ingredients of plants and animals (fats, oils).	Detergents are produced using synthetic resources; hydrocarbon of petroleum or coal.
3	Easily Biodegradable.	Only few of them are Biodegradable.
4	They take time to dissolve in water.	They dissolve faster in water.
5	Produces scum in hard water which affects its cleaning action.	Hard water does not affects its cleaning action.
6	Soaps does not produces lather with hard water.	Detergents produce lather with hard water.
7	Soap Examples: Sodium stearate, sodium palmitate.	Detergent Examples: Sodium lauryl sulphate.