

could I make a soap using sodium hydroxide+h₂O+stearic acid?
or any kind of acid?

Solution:

Stearic acid is a saturated fatty acid with an 18 carbon chain. Sure, soap can be made using it. Also soap can be made with any fatty acid. List of most commonly used acids:

- Lauric acid (C₁₂H₂₄O₂).
- Linoleic acid (C₁₈H₃₂O₂ - unsaturated).
- Linolenic acid (C₁₈H₃₂O₂ – double bond is in other position).
- Oleic acid (C₁₈H₃₄O₂).
- Palmitic Acid (C₁₆H₃₂O₂).
- Ricinoleic Acid (C₁₈H₃₄O₃ – unsaturated, contains OH group in chain).
- Myristic Acid (C₁₄H₂₈O₂).