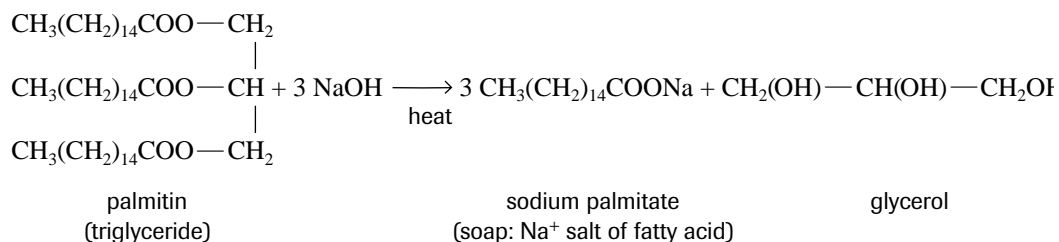


ACTIVITY 2.7.1 MAKING SOAP

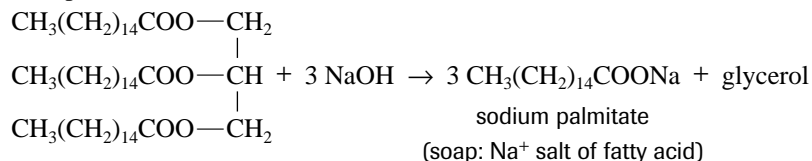
(Page 143)

Analysis

- (a) In saponification, an ester bond is broken and a carboxylic acid (salt) and an alcohol are recovered. In esterification, a carboxylic acid and an alcohol react to form an ester bond.
- (b) If difference exists, it may be explained by differences in saturation of fats and oils and intermolecular forces in saturated and unsaturated hydrocarbon components of fatty acids.
- (c) Soap molecules have a polar end (the ion end) and a nonpolar end (the hydrocarbon end).



- (d) (Sample answer)



- (e) Filtrate may contain NaCl, NaOH, vinegar, and glycerol.

CHAPTER 2 SUMMARY

Make a Summary

(Page 144)

Polymer	Monomer(s)	Example	Structure	Properties
synthetic polyesters	ester			
synthetic polyamides	amide			
proteins	amino acids			
nucleic acids	sugar, base phosphate			
carbohydrates	monosaccharides			