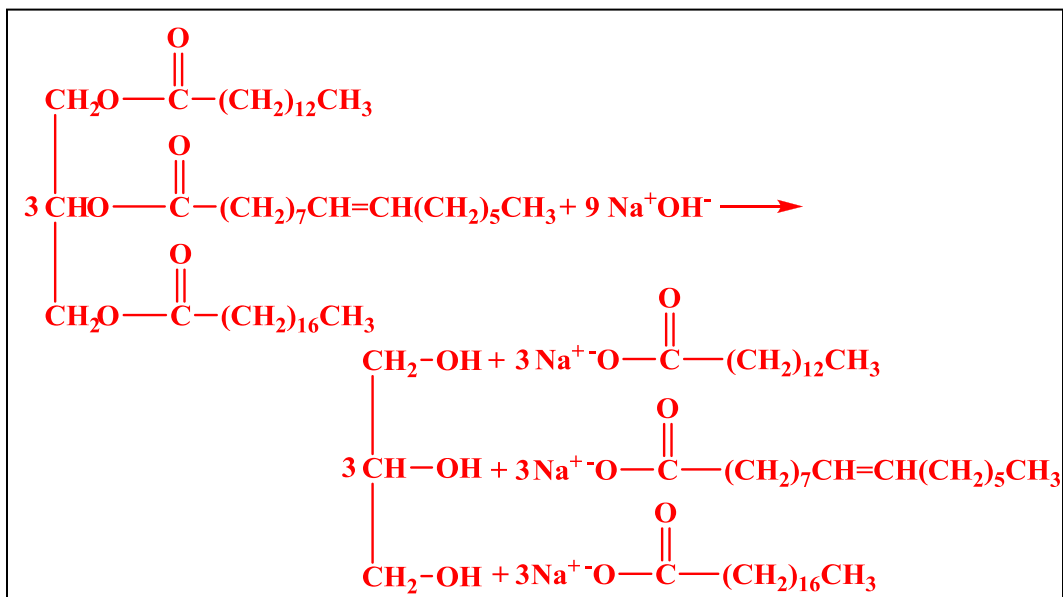


Practice 11-1

A particular glyceride contains myristic acid, palmitoleic acid, and stearic acid. How many moles of NaOH are needed to saponify 3 moles of this triglyceride? Write the complete balance equation.

Answer



Practice 11-2

A particular glyceride contains palmitic acid, linoleic acid, and linolenic acid. How many moles of H₂ are needed to completely saturate 1 mol of this triglyceride?

Answer

According to Table 11.1

Palmitic acid (16:0) no double bond

Linoleic acid (18:2) 2 double bonds

Linolenic acid (18:3) 3 double bonds

The glyceride has a total of 5 double bonds, (0 + 2 + 3 = 5).

Each double bond requires one molecule of H₂.

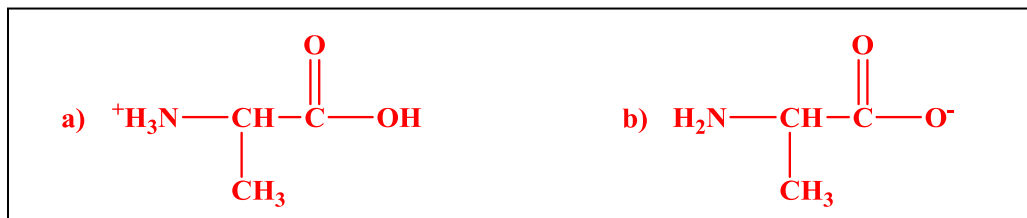
So for 1 mol glyceride, we need 5 moles of H₂.

Practice 11-3

Draw the structure of alanine in:

- strongly acidic solution
- strongly basic solution

Answer



Practice 11-4

Write the structure of tripeptide Gly-Val-Ser

Answer

