

A solution containing 0.20 g of a calcium salt is passed through a column containing the hydrogen form of a strong-acid cation-exchange resin. The resulting solution is neutralized with 35.0 mL of 0.10 M sodium hydroxide. What is the number of moles of  $\text{Ca}^{2+}$  per gram of the calcium salt?

- $3.50 \times 10^{-3}$
- $8.75 \times 10^{-3}$
- $1.75 \times 10^{-3}$
- 0.05

Which cobalt complex should be the most stable (having the largest formation constant)?

- $\text{Co}(\text{NH}_3)_6^{2+}$
- $\text{Co}(\text{NH}_3)_6^{3+}$
- $\text{Co}(\text{en})_3^{3+}$
- $\text{Co}(\text{H}_2\text{O})_6^{2+}$

Triacylglycerols are compounds which contain combined

- fatty acids and choline
- fatty acids and glycerol
- fatty acids and phospholipids
- cholesterol and other steroids