1.9.6.1: Practice Dilutions

Exercise 1.9.6.1.1

If you add water to 35.0 mL of 6.75 M H_2SO_4 solution until you have 250.0 mL of new solution, what is the concentration of sulfuric acid in that new solution?

Answer

0.945 M H_2SO_4.

Exercise 1.9.6.1.1

What volume of 4.00 M NaOH solution would you need to use in order to make 575 mL of a 1.20 M solution?

Answer

173 mL.