Question #82877, Chemistry / General chemistry

A 35.2 mL, 1.88 M KMnO4 solution is mixed with 16.7 mL of 0.892 M KMnO4 solution. Calculate the concentration of the final solution.

Solution

$$n = V* c$$

 $n_1 = 35.2 * 1.88 = 66,18 \text{ (mmol)}$
 $n_2 = 16.7 * 0.892 = 14.9 \text{ (mmol)}$
 $c` = n`/V` = (66.18 + 14.9)/(35.2 + 16.7) = 1.55 \text{ M}$

Answer

New concentration is 1.55 M

Answer provided by www.AssignmentExpert.com