

Answer on Question#40416-Chemistry-Other

Question

If you have 80 g of solute and want to make a 56% w/w solution how many grams of water should you add, rounded to the nearest thousandth

Solution

Percentage of the solvent (water in given case) in the solution: $100\% - 56\% = 44\%$

Thus, we have the proportion:

80 g (solute) – 56%

X g (water) – 44%

Hence $X = (80 \text{ g} \cdot 44\%) / 56\% = 62.857 \text{ g}$

Answer: 62.857 g