

#71844 Chemistry, General Chemistry

How many grams of solution are there in 5.5% that has 600 grams of solvent (mass/mass%).

Answer:

$$\% = \frac{m(\text{solute})}{m(\text{solute}) + m(\text{solvent})}$$

$$0.055 = \frac{m(\text{solute})}{m(\text{solute}) + 600}$$

$$0.055(m(\text{solute}) + 600) = m(\text{solute})$$

$$-0.945 \cdot m(\text{solute}) = -33$$

$$m(\text{solute}) = 34.9 \text{ g}$$

Answer provided by <https://www.AssignmentExpert.com>