## Answer on the question #58069, Chemistry / General Chemistry

**Question:**

find the mole fraction of CHCl3 if 7.1 moles of CHCl3 is dissolved in 35.4 moles of water.

**Answer:**

The mole fraction is the ratio of the number of the moles of the substance to total number of the moles:

$$x = \frac{n(CHCl_3)}{n_{tot}} \cdot 100\% = \frac{n(CHCl_3)}{n(CHCl_3) + n(H_2O)} \cdot 100\% = \frac{7.1}{7.1 + 35.4} \cdot 100\% = 16.7\%$$