## Question:

Calculate the molar concentration of ethanol in an aqueous solution that contains 5.5 g of C2H5 $\mathrm{OH}(46.07 \mathrm{~g} / \mathrm{mol})$ in 4.5 L of solution.

## Solution:

$C(E t O H)=\frac{n(E t O H)}{V}=\frac{m(E t O H)}{M(E t O H) \cdot V}=\frac{5.5}{46.07 \cdot 4.5}=0.0265 \mathrm{~mol} / \mathrm{L}$

## Answer: 0.0265 mol/L

Answer provided by AssignmentExpert.com

