tugas 7.

1. dik: $\sum$ml larutan = 200 ml / 0,2 kg Mr = 98

berat = 20%

kerapatan = 1,2 g/ml

dit : m?

Jwb : massa asam sulfat = $\frac{20}{100} \times 200$ = 40 gr H_2SO_4

mol zat terlarut = $\frac{40}{98}$ = 0,4082 mol

~~molalitas = 0,4082~~

molalitas = $\frac{0,4082}{0,2}$ = 2,041 mol/kg

2. dik : zat terlarut = 33 gr C_2H_5OH kerapatan = 0,785 g/ml

$\sum$ml larutan = 100 ml / 0,1 kg

dit = % volume ?

Jwb : volume C_2H_5OH = $\frac{33}{0,785}$ = 42,04 ml

% volume C_2H_5OH = $\frac{42,04}{100} \times 100\%$ = 42,04%

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3. dik : etanol dilarutkan = 33 g kerapatan etanol murni = 0,785 g/ml
volume total larutan = 100 ml

dit : konsentrasi C_2H_5OH

jwb : volume etanol = $33 \left(\frac{1}{0,785}\right)$ = 41,9 ml

konsentrasi = $\frac{41,9}{100} \cdot 100\%$ = 41,9 %