Answer on Question #53043 – Chemistry – General chemistry

Question

a) find molicular formila : C=12 / H= 7 / O= 16
b) calculate the number of mole of NaSO4- sodium sulfate 50m2 of solution of concentration
0.25m/l deduce the mass of sodium sulfate in 50ml of solution'
Given: Na: 23
S: 32
O:16

Answer:

a) $C_{12}H_7O_{16}$
b) n (Na_2SO_4) = C·V = 0.25(mol/L)·0.05(L)= **0.0125 mol**
   m(Na_2SO_4) = n·M = 0.0125(mol)·142(g/mol) = **1.775 g**