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(h 3 p3.8-3.10 Calco with Chemical Formulas + Equations
 59c) C6 H12O6 (6x12.01) + (12x 1,008) + 6(16,00) = 180.16amy
GLEY 25,2 Kg C2H2 × 1000 g C2H2 / 1mol C2 H2 = 968 mol C2 H2
                                                                   mmol = millimole
  62c) 72.1 mmol 502 x 1mol x 64.079 = 4.623 502
  666) 55.93 Kg Na HCO3 x 1000g x 1mol x 6,02 x 1023 funs = 4,01 x 1026 funs Na HCO3
   69) 1.8 ×10 7 C12 H22011 × Imol × 342,3 a × 1000mg = 0.10 mg
   73) \%N = \frac{|4.0|5|_{\text{mol N}}}{|7.03|_{\text{mol N}|_{3}}} \times 100 = 82.27\% \%N = \frac{2 \times |4.0|}{(0.06 \text{ CO(NHz})_{2})} \times 100 = 46.65\%
      \% N = \frac{2 \times 14.01}{\% 0.05 \ N44 \ NO_2} \times 100 = 35.00 \% \qquad \% N = \frac{2 \times 14.01}{132.15} \times 100 = 21.20 \%
  77) 150 pg I x 1g I x 100.0g KI x 1x10 pg KI = 196 pg KI
   83d) 8,5g Na2 C6 H607 x Imol x 2mol Na 22,99g Na = 1.7g Na Imol Nx2 C6 H807 x 12,99g Na = 1.7g Na
  876) 0.6723 (0 x 1mol = 6,6114 mol Co : 0,00759 = 1.5 x 2 = 3 Co3 As 2 8
        0.569g As x 1mol = 0.00759mol As + " = 1 x 2 = 2 (03 (As 04))
        6.486g 0 x 1mol = 0.0304 mol 0 + 11 = 4 x 2 = 8
  89a)
        74.03gC x Inol = 6,164mol C : 6.164mol = 5
                                                                      C=HN
         8.70gH x Imol = 8.63mol H =
         17.27g N × Imol = 1,233 mol N:
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Ch 3 Sect 8-10 Exercises 97) 33.013 CO2 x Imol CO2 x Imol CO2 = 0.7501mol C : 0,7501 = 1 CH2 empirical 13.51g H20 x 1mol H20 x 2mol H = 1.499mol H : 1 = 2 99) 8.595 CO2 × Imol CO2 × Imol CO2 = 0,195 mol C × 12.613 = 2.343 C - 0.0981 3.529 Hzo x Imol Hzo x 2 mol H = 0.3939 H = 0.3939 H = 4 Sample 4.303 - 2,345 - 0.3939 = 1,5730 × 1mol = 0.0981md 0 = 1 113) 25g CF2Cl2 x 70,90gCl2 x 12mon = 1,8x10g Cl2/yr 116) 16,99g0 x Imol 0 = 2,124 mol M = 39,08g/mol (K) 122) 2,69g Cucl2 × Imol Cucl2 = 0,0200 mol Cucl2 : 6,0200 = 1 3.41g hydrate CuCl2 · x H20 -2,69g CuCl2 = 0.72g H20x Ind H20 = 0.640 mol H20 = 0.0200 Culls . 2 H20 Sample 3.54g -2.32g C-0.240gH-0.300gN=0.680g0 124) $\frac{0.1999 \, N}{2.35 \, g \, sample} = \frac{\times g \, N}{3.54 g \, sample} \times = 0.300 \, g \, N$ $0.680 \, g \, O \times \frac{1 \, mol \, O}{16.00 \, g} = 0.0425 \, mol \, O$ 6.300g N x 1 mol N = 0.0214 mol N divide all by 6,0214 8.49 5 CO2 x Imd CO2 x Imol CO2 = 0.193 mol C) x Imol C = 2.329 C Cg HINO2 2.143 H20 x Imol H20 x 2mol H = 6.238 mol H x 1 mol H = 0.240 g H emp = molecular

(31) 8.00 oz bag × 4545 × 0.6552 g Na NO2 × 22.99g Na NO2 × 1000 mg Na = 41.7 mg Na

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Ch4 Exercises
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