KET HW#29,552 14,16,18 p353#22,28

(14) 2Fe₂O_{3 (5)} + C₍₅₎ -> 4Fe₍₅₎ -3 CO₂(9) -824.2 kJ OKJ OKJ -393.5 kJ DHE? OH = & products - & reactants Inol Fe x 467.9 kd = 117 kJ = 3(393.5) - 2(824.2) DH = 467.9KJ (16) CcHroc+CO2+6H2O(1) -12(38) 0 -393.5KJ -285.8KJ AHE & prod - EreaLT = (6(-393.5kx) +6(-285.8kx)) - (6(0) + 1(-1263 kx)) = 2813 kJ in one mole (1:1267 notio) (6) 2C2H5OH+602 -> ZCO2(9) + 3H2Q2) -277.0KT 0 -393.5KJ -285.8KJ DH= [2 (=-393.5KJ) + 3 (-285.8)] - (-277.0KJ) AH= -1367.4 DHg=3.811 k mol AHf= mol (B) 21.8mol x Molar = 55199 MM=253 9 21.8 = mol 52 7.95×105 x 1mol = 44,000 mol 2.65×105/17 = a