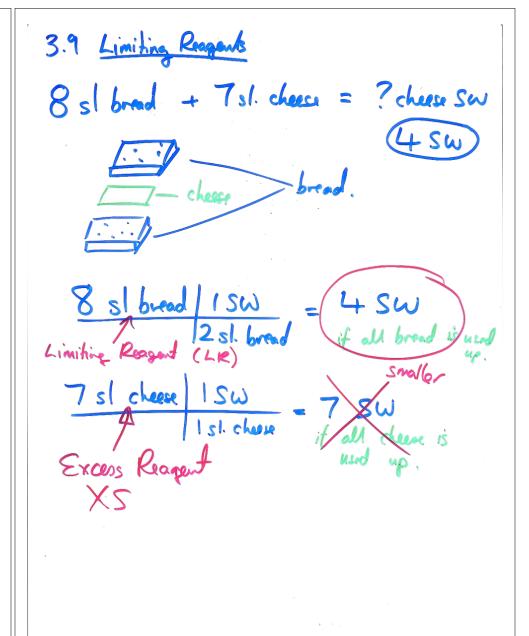
ARIS. ex: Given the unbalanced equation: $1 N_2 H_4 + O_2 \longrightarrow N_2 + 2 H_2 O$ then calculate how many grows of the can be formed from 15.00 N2H4? I mo! N2 H4 = 2 mo! H20 15.0g N2H4 moles mol N2H4 coefficient H2U N2H4 2×N=2×14.01 2x H= 2x1.008 9 H20 1+0 = 1.16.00 4xH=4x 1.008 32.04



en:

2AgNO3 + MgO2 → 2Aga + Mg(NO3)2

ex: if 0.10 mol AgiNg and 0.15 mol Myaz react, then how many mol of Aga will be made?

0.10 mol AgNO3 2 mol Aga

(0.10 mol Aga)

THEORETICAL YIELD

0-15mol Aga 2 mol Aga = 0.30 mol Aga

ox: 2C2H18 + 2502 - 16002 + 18420 Q. How many mol (Oz can be formed from 0.30 mol CBH18 and 0.50 mol Oz? 0.30 mol (8 Hig | 16 mol (02 = 2.4 mol (02 | 25 mal 02 16 mol 002 = 0.32 mol(02 PREDICTED OR THEORETICAL 3.10 Reaction Yield YIELD

% Yield = Actual Yield (xp7) (

Theoretical Yield (calc.) alculated

ex: If we only made 0.14 mol CO2 in last reu, our yyled = 0.14 x100 = 44%

Ch 4 Rxns in agreens solus
reactions solutions Aqueons solution: Something is dissolved in Water Solution: Small amount DISSOLVED a Larger of something IN Amount of SOLUTE Somthing SOCUENT ex: Brine: Nach in H20 solute solvent (aqueous) ex: Benzene in Gasoline solute ex: Ozagi in Nzagi AIR 211 02 , 78% N2 , 1% Ar

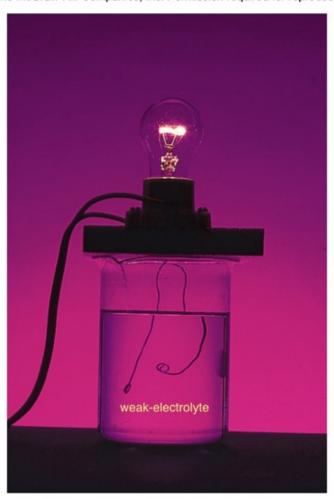
or: Alloys (solid solu). ex: White Gold: Pt in Au SOLUTE Dissolve in HO Dissolve in HO + form solys that + form sols that do not conduct elec. conduct elec. ex: NaCl ex: C6H12O6 shroce KNOZ C2H60 ethanol (often molecular cpds) (often ionic cpds) ELECTROLYTES NON-ELECTROLYIES also ... weak-electrolytes - dissolve in theo - only conduct weakly ! ex: CH3 (OOH achie acid

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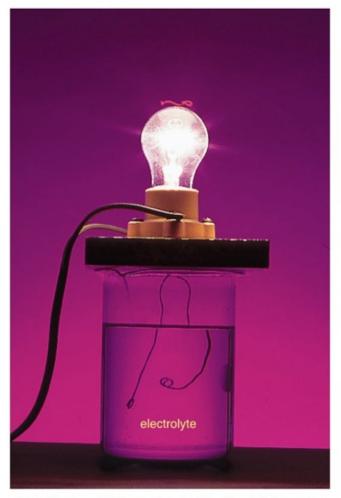
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