

(10) Co (Ar) $4s^2 3d^7$
 (16) Ga (Ar) $4s^2 3d^{10} 4p^1$
 (21) C 4 val e⁻ → want to lose 4
 I_1, I_2, I_3, I_4
 0 20 40 1,000,000
 stable 90

Nov 29-7:38 AM

(27)

K
Sr

 ← No d e⁻ At# < 21
 2s + d e⁻
 (28) Small EA = ~ metal.
 I_1, I_2, I_3
 2, 4, 10
 2 val e⁻

Nov 29-8:06 AM

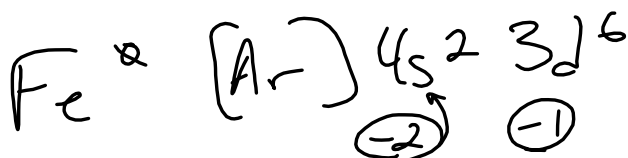


$$\Delta H = n \sum (\text{Prod}) - n \sum (\text{React})$$

$$\left[4(90) + 6(-286) \right] - \left[4(-46) + 5(0) \right]$$

$$-1172$$

Nov 29-8:11 AM

 $\textcircled{\text{EC 1}}$ 

VACANCE. - Outermost.



Nov 29-8:13 AM

(EC2) 15.3g NaNO_3 - ~~$\Delta T = 3.44^\circ\text{C}$~~ , ~~$\frac{1070\text{J}}{^\circ\text{C}}$~~

Find ΔH J
1 mole NaNO_3

1070 J	3.44	85 g NaNO_3
	15.3g NaNO_3	1 mole NaNO_3

Nov 29-8:14 AM

Text chap 14 Glass

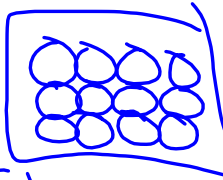


On-line Chap 15 Dr. Spencer's Text.

- <http://SURA.SYR.EDU>
- MOODLE
- login / Password

Nov 29-8:22 AM

<p><u>Intrinsic property</u> Intensive</p> <p>Color MP/FP BP Corrosion Reactivity Conductivity</p> <p>Mass <u>Independent</u></p>	<p><u>Extrinsic property</u> Extensive</p> <p>Mass (weight) Volume Dimensions (size)</p> <p>- Can measure - size</p> <p><u>Mass Dependent</u></p>
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Nov 29-9:28 AM

<p><u>S</u></p> <p><u>definite shape</u> <u>definite volume</u></p>  <p>Strong IMF Inter Molecular Forces band between particles/molecules</p> <p>Vibrate in place. (Pivot foot)</p>	<p><u>L</u></p> <p><u>definite volume</u> takes shape of container (Indefinite)</p> <p>Weaker IMF</p>  <p>Shuffle → more slowly Speed ↔ Viscosity</p>	<p><u>G</u></p> <p>takes shape + volume of container (Indefinite)</p> <p>Weakest/barely IMF existant</p>  <p>fast molecular motion</p>
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Nov 29-9:35 AM

Chemical 4N6

* Proprietary formula *

Pyrex = Borosilicates.
% composition

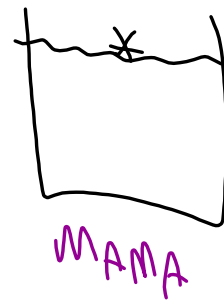
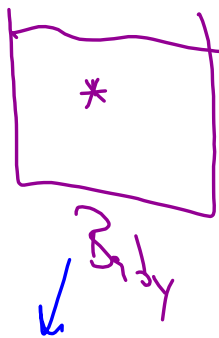
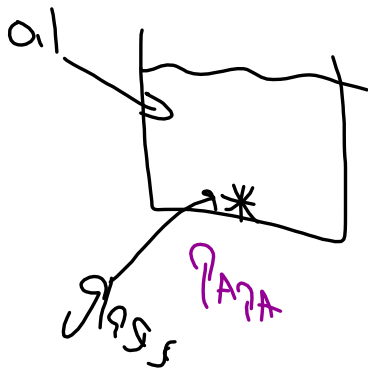


Nov 29-9:51 AM

Density

(o.l.s)

Float test in different liquids



Oil → refractometer → refractive index of glass

Nov 29-9:54 AM

