

Exam #1 Info Sheet

Selected Electronegativities

H 2.1

F 4.0

O 3.5

N 3.0

C 2.5

Cl 3.0

Br 2.8

Rn 2.1

$$\ln\left(\frac{P_{vap}^{T_1}}{P_{vap}^{T_2}}\right) = \frac{\Delta H_{vap}}{R} \left(\frac{1}{T_2} - \frac{1}{T_1}\right)$$

$$R = 8.3145 \text{ J mol}^{-1} \text{ K}^{-1}$$

$$R = 0.08206 \text{ L atm mol}^{-1} \text{ K}^{-1}$$

$$1 \text{ atm} = 760 \text{ torr}$$

PERIODIC TABLE

		1A																	8A	
		1																		2
		H																		He
		1.008																		4.003
		1A 2A												3A	4A	5A	6A	7A	8A	
		3	4											5	6	7	8	9	10	
		Li	Be											B	C	N	O	F	Ne	
		6.941	9.012											10.81	12.01	14.01	16.00	19.00	20.18	
2		11	12											13	14	15	16	17	18	
		Na	Mg	3	4	5	6	7	8	9	10	11	12	Al	Si	P	S	Cl	Ar	
		22.99	24.30											26.98	28.09	30.97	32.07	35.45	39.95	
3		19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
		K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
		39.10	40.08	44.96	47.88	50.94	52.00	54.94	55.85	58.93	58.69	63.55	65.39	69.72	72.61	74.92	78.96	79.90	83.80	
4		37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
		Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
		85.47	87.62	88.91	91.22	92.91	95.94	(98)	101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.8	127.6	126.9	131.3	
5		55	56	La-Lu	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	
		Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
		132.9	137.3		178.5	180.9	183.8	186.2	190.2	192.2	195.1	197.0	200.6	204.4	207.2	209.0	(209)	(210)	(222)	
6		87	88	Ac-Lr	104	105	106	107	108	109	110	111	112		114		116		118	
		Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub		Uuq		Uuh		Uuo	
		(223)	(226)		(261)	(262)	(263)	(264)	(265)	(268)	(269)	(272)	(269)							
7																				