

MATS275
Homework #1
Due Monday, September 1, 2003

1. Complete the table of bond energies given below in kJ/mol in terms of kcal/mol, and eV/atom.

<i>Bond Type</i>	<i>kJ/mol</i>	<i>kcal /mol</i>	<i>eV / atom</i>
Ionic	600 - 1600		
Metallic	100 - 800		
Covalent	500 - 1250		
Hydrogen	10		
van der Waals	2-30		

- 2. Problem 2.9
- 3. Problem 2.11
- 4. Problem 2.14
- 5. Problem 2.20
- 6. Problem 2.21
- 7. Problem 2.22
- 8. Problem 2.23
- 9. Problem 2.36
- 10. Problem 2.59