## Ionization energies error H-0.0064 9 0.11 0.11 0.59 2.4 0.11 1.9 0.49 He - 2.7 0.82 0.82 6.1 4.3 5.3 1.2 3.4 12 Li -4.5 1.4 0.049 0.12 3.7 10 1.7 2.4 3.6 7.5 10 12 12 6.8 9.3 8.8 Be -6.3 8.7 8.7 4.8 12 11 8.3 3.4 5.7 B -7.9 1 10 C - 6.59.7 9.5 4.6 10 1.8 1.5 5.7 3.6 N -4.5 6 5.8 6.3 0.98 12 5.3 1.6 0.35 10 1.7 2.3 9.6 4.6 3.8 0 -3.1 5.5 8 F -3.8 2.7 4.6 11 2.7 2.3 4 5.4 2.1 System Ne - 2.1 5.5 4 1.9 0.95 14 2.8 0.029 2.3 Na -5.1 2.1 0.94 0.39 4.9 11 0.13 2.6 6 8.8 3.9 5.8 6.4 1.6 1.3 0.64 Mg - 0.790.097 0.53 AI - 2.1 0.25 4.7 4.4 0.98 3.1 3.5 5 2.8 1.6 Si -1 0.31 3.8 3.8 3.5 4.6 0.92 P - 0.0110.39 3 3.1 4.3 3.2 3.1 2.3 0.79 S - 1.60.51 0.87 0.44 2.2 5.8 0.49 1.3 0.34 2 CI -0.021 6 2 0.28 1.2 8.0 0.038 1.3 0.27 Ar - 1.4 0.2 0.45 0.014 1.7 4.7 0.43 0.66 0.7 MAE -3.6 3.4 3.9 3.7 3.5 3.2 2.3 2.7 ppe r2scan am05 scan 90m mn15 **b97** sogga11

error [kcal/mol]

abs.