Harmonic vs Morse Bond fit for bond coeff 1 C,0,4 - C,0,4 BO: 1.0 parms: file (element,ring,nb) 200 -Quartic Bond Morse Bond 175 150 Energy (Kcal/mol) 125 100 75 50 25 0 2 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 2 C,0,4 - C,6,3 BO: 1.0 parms: file (element,ring,nb) 200 -Quartic Bond Morse Bond 175 150 Energy (Kcal/mol) 125 100 75 50 25 0 2 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 3 C,0,4 - H,0,1 BO: 1.0 parms: file (element,ring,nb) Quartic Bond Morse Bond 200 Energy (Kcal/mol) 150 100 50 0 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 4 C,0,4 - C,6,3 BO: 1.0 parms: file (element,ring,nb) 200 -Quartic Bond Morse Bond 175 150 Energy (Kcal/mol) 125 100 75 50 25 0 2 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 5 C,0,4 - H,0,1 BO: 1.0 parms: file (element,ring,nb) Quartic Bond Morse Bond 200 Energy (Kcal/mol) 150 100 50 0 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 6 C,6,3 - C,6,3 BO: 1.5 parms: file (element,ring,nb) Quartic Bond 350 Morse Bond 300 250 Energy (Kcal/mol) 200 150 100 50 0 2 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 7 C,6,3 - H,0,1 BO: 1.0 parms: file (element,ring,nb) Quartic Bond Morse Bond 200 Energy (Kcal/mol) 150 100 50 0 Bond Radius (A)

Harmonic vs Morse Bond fit for bond coeff 8 C,6,3 - N,0,3 BO: 1.0 parms: file (element,ring,nb) Quartic Bond 250 Morse Bond 200 Energy (Kcal/mol) 150 100 -50 0 Bond Radius (A)

