170170000000000000002 60 55 8.2 50 Heat capacity (cal/mol\*K) 8.0 Entropy (cal/mol\*K) 30 30 7.8 7.6 7.4 7.2 25 statmech 7.0 20 fitted 500 1500 1000 2000 1000 2000 1500 0 2500 0 500 2500 Temperature (K) Temperature (K) 3122.5 3100 3120.0 -Gibbs free energy (kcal/mol) 3080 3117.5 Enthalpy (kcal/mol) 3060 3115.0 3040 3112.5 3020 3110.0 3107.5 3000 3105.0 2980

500

0

1000

Temperature (K)

1500

2000

2500

500

0

1000

1500

Temperature (K)

2000

2500