Chemistry 2720 Fall 2005 Quiz 5

Name:_____

Marks for this quiz: 10

The solubility of calcium hydroxide in water at 0°C is 1.85 g/L and the solubility at 100°C is 0.77 g/L. The molar mass of calcium hydroxide is 74.093 g/mol. Use these data to estimate the enthalpy of reaction for the dissolution of calcium hydroxide in water.

To convert degrees Celsius to Kelvin, add 273.15.

$$R = 8.314\,472\,\mathrm{J\,K^{-1}mol^{-1}}$$