



**Figure A.1. Moore et al. (1998) solubility curve (dashed line), Burnham (1997) solubility curve (thick solid line), and Burnham undersaturated melt  $\text{H}_2\text{O}$  mole fraction-fugacity lines at 1 to 8 kbar total pressure, 800 °C for the melt composition of synthesis 298 (Sato et al., 2005).**