College Prep Chemistry of the Earth System

Assignment 2C 30 Points

Units of Heat and Temperature

1. Convert the following absolute temp problems (K → ºC, and ºC to K)
    a. 492.5K, convert to ºC
    b. 273.5K, convert to ºC
    c. 132.8ºC, convert to K
    d. -29.4ºC, convert to K
2. Convert the following heat units
    a. 4932.4J, convert to kJ
    b. 1.28kJ, convert to J
    c. 382.2cal, convert to kcal
    d. 5.20kcal, convert to cal
3. Convert between the following heat unit
    a. 582.5cal, convert to J
    b. 924.3cal, convert to J
    c. 3928.4J, convert to cal
    d. 4934.2J, convert to cal
    e. 5.28kJ, convert to kcal
    f. 492.4kJ, convert to kcal
    g. 8.28kcal, convert to kJ
    h. 12.7kcal, convert to kJ