Challenge Problem #1

Name ____________________________

Due Monday, Jan. 30, 2006, 5:00 pm.  Room 121 Chemistry

Ethanol, C\textsubscript{2}H\textsubscript{5}OH, is mixed with gasoline to make the fuel, gasohol. Calculate the number of kilojoules of heat released by burning completely 1.0 gallon of ethanol. The density of ethanol is 0.787 g/cm\textsuperscript{3}. Use data in Appendix 3 of your text to help with this calculation.