ENERGY CHANGES AND RATES OF REACTION

Lesson 7 Quiz: Enthalpy of Formation

Use enthalpies of formation to calculate the enthalpy change for the following chemical reaction. Present the full calculation including the formula and unit analysis. (HCN is hydrogen cyanide.)

 $2 \operatorname{NH}_3(g) + 3 \operatorname{O}_2(g) + \operatorname{CH}_4(g) \rightarrow 2 \operatorname{HCN}(g) + 6 \operatorname{H}_2\operatorname{O}(g) \qquad \Delta H = ?$