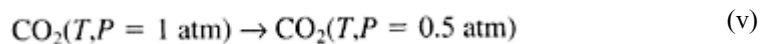


Figure 12.13 The Ellingham diagram for selected oxides.

If the pressure of the CO_2 , which is produced at 1 atm, is decreased to 0.5 atm, then, for change of state



the decrease in Gibbs free energy is $\Delta G_{(\text{v})} = RT \ln 0.5$, and hence, for the reaction

