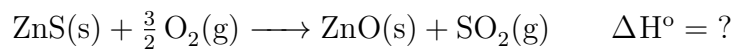


HEAT SUMMATION 6



$$\Delta H^\circ = [\Delta H_{\text{ZnO(s)}}^\circ + \Delta H_{\text{SO}_2(\text{g})}^\circ] - [\Delta H_{\text{ZnS(s)}}^\circ + \frac{3}{2} \Delta H_{\text{O}_2(\text{g})}^\circ]$$

$$\Delta H^\circ = [(-350.5 \text{ kJ}) + (-296.8 \text{ kJ})] - [(-206.0 \text{ kJ}) + \frac{3}{2}(0)]$$

$$\Delta H^\circ = -441.3 \text{ kJ}$$

