The evaporation of LaCl$_3$, LaBr$_3$ and LaI$_3$ was investigated in closed tubes under argon atmosphere and correlated with data in the literature. The enthalpies and entropies of evaporation were derived from the temperature functions of pressure:

- $\Delta H^\circ(v, \text{LaCl}_3, T) = 48.5 \pm 2 \text{ kcal/mol}$, $\Delta S^\circ(v, \text{LaCl}_3, T) = 22.0 \pm 3 \text{ cal/K-mol}$
- $\Delta H^\circ(v, \text{LaBr}_3, T) = 48.0 \pm 2 \text{ kcal/mol}$, $\Delta S^\circ(v, \text{LaBr}_3, T) = 24.0 \pm 2 \text{ cal/K-mol}$
- $\Delta H^\circ(v, \text{LaI}_3, T) = 49.5 \pm 2 \text{ kcal/mol}$, $\Delta S^\circ(v, \text{LaI}_3, T) = 29.0 \pm 2 \text{ cal/K-mol}$