

Marks
3

- Consider the following reaction.



Calculate ΔG° (in J mol^{-1}) for this reaction.

$\Delta G^\circ =$

Calculate ΔG (in J mol^{-1}) at 25°C when $p(\text{H}_2\text{O}) = 18 \text{ mmHg}$, $p(\text{Cl}_2\text{O}) = 2.0 \text{ mmHg}$ and $p(\text{HOCl}) = 0.10 \text{ mmHg}$.

Answer: