

- Explain briefly why the $[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$ cation has a K_a of 6×10^{-3} , whilst the $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ cation has a K_a of 4×10^{-9} .

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