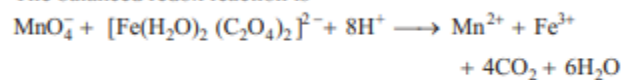


In dilute aqueous H_2SO_4 the complex diaquadioxalatoferate (II) is oxidised by MnO_4^- . For this reaction, the ratio of the rate of change of $[\text{H}^+]$ to the rate of change of $[\text{MnO}_4^-]$ is

(2015 Adv.)

The balanced redox reaction is



$$\Rightarrow \frac{r[\text{H}^+]}{r[\text{MnO}_4^-]} = \frac{8}{1} = 8$$