

Answer on question 77470 Chemistry / General Chemistry

$$E(\text{Cr}^{3+}) = E^0 + \frac{0.059}{n} \lg[\text{Cr}^{3+}]$$

$$E = -0.744 + \frac{0.059}{3} \lg[0.01] = -0.78 \text{ B}$$

$$E(\text{Cr}_2\text{O}_7^{2-}) = E^0 + \frac{0.059}{n} \lg[\text{Cr}_2\text{O}_7^{2-}]$$

$$E = 0.294 + \frac{0.059}{2} \lg[0.01] = 0.235 \text{ B}$$

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