\[ \Delta A = \frac{\Delta \varepsilon \left( [\text{M(HL)}^{\text{aq}}] + [\text{F}^-] + 1/K \right) + (\Delta \varepsilon^2 \left( [\text{M(HL)}^{\text{aq}}] + [\text{F}^-] + 1/K \right))^2 - 4 \Delta \varepsilon^2 [\text{M(HL)}^{\text{aq}}][\text{F}^-] }{2} \]