Answer on Question #78396 - Chemistry - Physical Chemistry

Question:

Estimate the concentration of Cadmium (II) ions over the sediment CdCO3, KS=1.0·10-12 M2. 10. The stability constant of the complex of {1-Methyl-2-[5-(5-methyl-isoxazole-3-yl-amino)

Solution:

$$Ks = [Cd^{+2}] \cdot [CO_3^{-2}]$$

$$Ks = x \cdot x = x^2$$
;

$$[Cd^{+2}] = V(Ks) = V(1.0 \cdot 10^{-12}) = 1.0 \cdot 10^{-6} M.$$

Answer: 1.0·10⁻⁶ M.

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