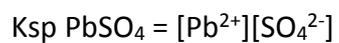


Answer on Question #59512, Chemistry / Inorganic Chemistry

1. Lead (II) sulphate is used as white pigment. what is the solubility of PbSO_4 ?
 K_{sp} is 1.8×10^{-11}

Solution:



S – solubility

$$[\text{Pb}^{2+}] = [\text{SO}_4^{2-}] = S$$

$$K_{sp} = S \times S = S^2$$

$$S = \sqrt{K_{sp}}$$

$$S = \sqrt{1.8 \times 10^{-11}} = 4.24 \times 10^{-6}$$

Answer: $S = 4.24 \times 10^{-6}$

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