

Solubility Product Expression

Choose words from the list to fill in the blanks in the paragraphs.

Word List

dissociation equation
ion-product
 K_{sp}
precipitate
saturated solution
solubility product constant
solubility product expression

The concentration of an ionic solid in contact with a(n) (1) of that solid is a constant. This constant can be combined with the solution equilibrium constant to produce the (2) , whose symbol is (3) . Given a(n) (4) showing the formation of ions from a solid, we may write an expression, called a(n) (5) , to show what concentrations of ions, raised to appropriate powers and divided, produce the constant. Such an expression is sometimes called a(n) (6) .

Expressions such as those described above, used with a knowledge of the constants involved, make it possible to predict whether or not a solid product will form when aqueous ionic solutions are combined. Such a solid is called a(n) (7) .

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____
