

**autoprotolysis constant**

The product of the activities (or, more approximately, concentrations) of the species produced as the result of *autoprotolysis*. For solvents in which no other ionization processes are significant the term is synonymous with 'ionic product'. The autoprotolysis constant for water,  $K_w$ , is equal to the product of activities:

$$a(\text{H}_3\text{O}^+)a(\text{OH}^-) = 1.0 \times 10^{-14} \text{ at } 25 \text{ }^\circ\text{C}.$$

1994, 66, 1087