

partition constant, K_D°

The ratio of activity of a given species A in the extract to its activity in the other phase with which it is in equilibrium, thus:

$$(K_D^\circ)_A = \frac{a_{A,\text{org}}}{a_{A,\text{aq}}}$$

Its value should not vary with composition but depends on the choice of standard states and on the temperature (and eventually the pressure).

See: transfer activity coefficient, distribution constant

Source:

PAC, 1993, 65, 2373 (*Nomenclature for liquid-liquid distribution (solvent extraction) (IUPAC Recommendations 1993)*) on page 2385