

solvophobicity parameter, S_p

A *solvent parameter* defined by:

$$S_p = 1 - M/M(\text{hexadecane})$$

derived from the Gibbs energy of transfer ($\Delta_t G^\circ$) of a series of solutes from water to numerous aqueous-organic mixtures and to pure solvents:

$$\Delta_t G^\circ (\text{to solvent}) = MR_T + D$$

where R_T is a solute parameter, and M and D characterize the solvent. The M values are used to define a solvent solvophobic effect so that S_p values are scaled from unity (water) to zero (hexadecane).

1994, 66, 1165