

**transfer activity coefficient,  $\gamma_t$** 

A term used to quantify the difference in the free energy of a solute ion in two different standard states often in two different liquid phases. The relationship is  $\Delta_t G^\circ = \nu R T \ln \gamma_t$  where  $\Delta_t G^\circ$  is the transfer Gibbs energy and  $\nu$  is the number of ions in the solute.

Notes:

1. It should not be confused with the mass transfer coefficient which represents the specific rate of transfer of a species from one phase to another.
2. It does not necessarily imply the physical transfer of a solute between two liquid phases.

**See also:** partition constant

**Source:**

PAC, 1993, 65, 2373 (*Nomenclature for liquid-liquid distribution (solvent extraction)* (IUPAC Recommendations 1993)) on page 2386