

**compensation effect**

In a considerable number of cases plots of  $T\Delta^\ddagger S$  vs.  $\Delta^\ddagger H$ , for a series of reactions, e.g. for a reaction in a range of different solvents, are straight lines of approximately unit slope. Therefore, the terms  $\Delta^\ddagger H$  and  $T\Delta^\ddagger S$  in the expression partially compensate, and  $\Delta^\ddagger G = \Delta^\ddagger H - T\Delta^\ddagger S$  often is a much simpler function of solvent (or other) variation than  $\Delta^\ddagger H$  or  $T\Delta^\ddagger S$  separately.

See also *isokinetic relationship*.

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