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standard equilibrium constant, K°, K

Synonym: thermodynamic equilibrium constant

Quantity defined by $K^\circ = e^{-\Delta_r G^\circ / RT}$ where $\Delta_r G^\circ$ is the standard reaction Gibbs energy, R the gas constant and T the thermodynamic temperature. Some chemists prefer the name thermodynamic equilibrium constant and the symbol K.

Source:
Green Book, 2nd ed., p. 50

See also:
PAC, 1994, *66*, 533 *(Standard quantities in chemical thermodynamics. Fugacities, activities and equilibrium constants for pure and mixed phases (IUPAC Recommendations 1994))* on page 548

