

real potential of a species in a phase

Defined for species B in phase β as

$$a_B^\beta = \mu_B^\beta - z_B F \psi^\beta$$

where μ_B^β is the *electrochemical potential* of species B in phase β , z_B is the charge number of species B, F is the *Faraday constant*, and ψ^β is the *outer electric potential* of phase β . Since ψ^β is zero when the charge on the phase β is zero, the real potential may be regarded as the value of the electrochemical potential of the uncharged phase.

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