

conditional (formal) potential

Conditional (formal) potential, E^0 , is related to the potential of a cell reaction, E_{cell} , by an equation analogous to that relating E_{cell} to the standard potential E_0 , with the activity, a_i , replaced by any composition variable, c_i (to be indicated by a subscript). For example:

$$E_{\text{cell}} = E_{\text{c}}^0 - (RT/nF) \sum_i \nu_i \ln c_i$$

1974, 37, 505