

mass-transfer-controlled electrolyte rate constant

In controlled-potential coulometry and related techniques, the empirically evaluated constant of proportionality defined by the equation

$$s_B = - (1/c_B)(dc_B/dt)$$

where c_B is the *bulk concentration* of the substance B, and dc_B/dt is the rate of change of that concentration, resulting from the consumption of B by reduction or oxidation at the *working electrode*.

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