

ionic conductivity

Defined for ionic species B by

$$\lambda = |z_B| F u_B$$

where z_B is the charge number of the ionic species B, F is the Faraday constant, and u_B is the electric mobility of species B. In most current practice z_B is taken as unity, i.e. ionic conductivity is taken as that of species such as Na^+ , $\text{Ca}^{2+}/2$, $\text{La}^{3+}/3$ etc. To avoid ambiguity the species considered should be clearly stated, e.g. as $\lambda(\text{Ca}^{2+}/2)$.

Source:

PAC, 1974, 37, 499 (*Electrochemical nomenclature*) on page 512