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Notation

Greek characters

- $\alpha$: Speciation factor, fraction
- $\delta$: Solid solution fraction
- $\epsilon$: Activity ratio
- $\xi$: Exchange factor between the activity ratio
- $\phi$: Spatial weighting factor
- $\phi_I$: Isotope fractionation
- $\phi_s$: Solid solution fraction
- $\phi$, $\phi_m$: Equivalent fraction of ion
- $\phi_M$: Molar fraction of ion
- $\phi_i$: Activity-coefficient isotopic enrichment factor
- $\gamma$: Porosity, a fraction of water-filled porosity
- $\theta$: Water content (g/g)
- $\epsilon_w$: Water filled porosity, a mobile water filled porosity (g/m$^3$)
- $\epsilon_m$: Viscosity (g/m$^3$)
- $\eta$: Tortuosity, the ratio of mobile water filled porosity
- $1/k$: Debye length (m)
- $\Lambda_m$: Molar electrical conductivity
- $\lambda$: Radioactive decay constant
- $\mu$: Activity coefficient in air
- $\mu_M$: Reduced mass (g/mol)
- $\mu_{max}$: Specific degradation constant
- $\rho$: Stoichiometric coefficient
- $\rho_p$: Charge density (C/m$^3$)
- $\rho_m$: Solid or liquid density
- $\rho_i$: Bulk density of solid (g/m$^3$)
- $\rho_p$: Charge density at solid $p$
- $\sigma_{DL}$: Double layer charge (C/m$^3$)
- $\sigma_p$: Activity-coefficient isotopic enrichment factor
- $\sigma_I$: Spatial weighting factor
- $\theta$: Residence time (s)
- $\alpha_{180}$: Isotope fractionation
- $\beta_i$: Equivalent fraction of ion
- $\gamma_i$: Activity-coefficient isotopic enrichment factor
- $\delta$: Porosity, a fraction of water-filled porosity
- $\epsilon$: Water content (g/g)
- $\mu_{max}$: Reduced mass (g/mol)
- $\mu$: Specific degradation constant
- $\rho_p$: Charge density (C/m$^3$)
- $\rho_m$: Solid or liquid density
- $\rho_i$: Bulk density of solid (g/m$^3$)
- $\rho_p$: Charge density at solid $p$
- $\sigma_{DL}$: Double layer charge (C/m$^3$)
- $\sigma_p$: Activity-coefficient isotopic enrichment factor
- $\sigma_I$: Spatial weighting factor
- $\theta$: Residence time (s)
- $\phi_m$: Mobile fraction of porosity