

**mass-average velocity (in electrolytes)**

Mass-average velocity:

$$v_b = \rho^{-1} \sum C_i M_i v_i$$

Cf. molar average velocity:

$$v_m = c_t^{-1} \sum c_i v_i$$

with  $c_t = \sum c_i$  where  $M_i$  = molar mass,  $c_t$  = total concentration ( $\text{mol m}^{-3}$ ),  
 $\rho$  = density of the solution ( $\text{kg m}^{-3}$ ).

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