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total velocity of the analyte, ν_{tot}

in capillary electrophoresis

The sum of electrophoretic velocity, ν_{ep}, of an ion and the electroosmotic velocity, ν_{eo}.

$$\nu_{tot} = \nu_{ep} + \nu_{eo}$$

This quantity can be measured experimentally as the effective length of the capillary divided by the migration time (L_{eff}/t_m).

Notes:

1. Depending on the signs and relative magnitudes of these velocities, the total velocity of an analyte can have either the same or the opposite direction to the electro- osmotic velocity.
2. The total velocity is the velocity of the ion measured as a displacement relative to the capillary wall divided by time.

Source:

PAC, 2004, *76*, 443 *(Terminology for analytical capillary electromigration techniques (IUPAC Recommendations 2003))* on page 449

