

reduced mobile phase velocity (in chromatography), v

A term used mainly in liquid chromatography. It compares the mobile phase velocity with the velocity of diffusion into the pores of the particles (the so-called diffusion velocity, u_D):

$$v = \bar{u}/u_D = \bar{u}d_p/D_M$$

In open-tubular chromatography:

$$v = \bar{u}d_c/D_M$$

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