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total retention volume (time), V_R, t_R

in column chromatography

The volume of mobile phase entering the column between sample injection and the emergence of the peak maximum of the sample component of interest, or the corresponding time. It includes the hold-up volume (time):

$$t_R = \frac{V_R}{F_c}$$

where F_c is the mobile phase flow rate at column temperature.

Source:
PAC, 1993, *65*, 819 *(Nomenclature for chromatography (IUPAC Recommendations 1993))* on page 841

