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## Calculating Theoretical Plates N half height

The theoretical plate number  $N_{0.5}$  can be calculated from a chromatogram using the equation below:

$$N_{0.5} = 5.54 (t_R/w_{0.5})^2$$

Where  $t_R$  is retention time and  $w_{0.5}$  is the peak width at half its height. Remember to use the same units (minutes or seconds) for both values ( $t_R$  and  $w_{0.5}$ ).

