



## Calculating theoretical plates N at half height – How To

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  $w_{0.5}$ ).



Printed from the Chrom Resource Center

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)

Date: 05-19-2024