

How to determine concentration of an impurity in HPLC with the relative response factor RRF – How to

The concentration can be calculated once you have values for the following two equations:

$$\text{Response Factor (RF)} = \text{Peak Area} / \text{Concentration}$$

$$\text{Relative Response Factor (RRF)} = \text{RF}_{\text{impurity}} / \text{RF}_{\text{API}}$$

You can use RRF and RF_{API} to solve for $\text{RF}_{\text{impurity}}$. Then you can use the measured peak area of the impurity to solve for its concentration.



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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

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

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

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