

N R NuMega Resonance Labs

Fast Reliable Services

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NuMega Reference #

2601BROM.576B

Company: Bromantane LLC

Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	GB-115
Standard	1,3,5-trimethoxybenzene
Weight of Standard (wt _{st})	1.351
Weight of Sample (wt _{sa})	8.724
Sample Molecular Weight (MW _{sa})	434.54
Standard Molecular Weight (MW _{st})	168.19
Integration of Sample (I _{sa})	164.77
Integration of Standard (I _{st})	100
# of Equivalent Nuclei in Standard (n _{st})	3
# of Equivalent Nuclei in Sample (n _{sa})	2
Assigned Purity of Standard % (P)	99.83
Purity %	98.7

Formula Used for Calculation:

$$\text{Purity \%} = \frac{wt_{st}}{wt_{sa}} \times \frac{MW_{sa}}{MW_{st}} \times \frac{I_{sa}}{I_{st}} \times \frac{n_{st}}{n_{sa}} \times P$$