

NuMega Resonance Labs

Fast Reliable Services

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NuMega Reference #

2601BROM.023B

Bromantane LLC

Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

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|-----------|----------|
| Sample ID | BPN14770 |
|-----------|----------|

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|----------|--------------------|
| Standard | Ethylene Carbonate |
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| Weight of Standard (wt _{st}) | 1.112 |
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|--------------------------------------|-------|
| Weight of Sample (wt _{sa}) | 9.399 |
|--------------------------------------|-------|

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|---|--------|
| Assumed Sample Molecular Weight (MW _{sa}) | 405.80 |
|---|--------|

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|---|-------|
| Standard Molecular Weight (MW _{st}) | 88.06 |
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|--|-------|
| Integration of Sample (I _{sa}) | 91.35 |
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|--|-----|
| Integration of Standard (I _{st}) | 100 |
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|---|---|
| # of Equivalent Nuclei in Standard (n _{st}) | 4 |
|---|---|

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|---|---|
| # of Equivalent Nuclei in Sample (n _{sa}) | 2 |
|---|---|

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|-----------------------------------|-------|
| Assigned Purity of Standard % (P) | 99.71 |
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|----------|-------|
| Purity % | 99.3% |
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Formula Used for Calculation:

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