

# NuMega Resonance Labs

*Fast Reliable Services*

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NuMega Reference #

2601BROM.906A

Company: Bromantane LLC

## Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

|   |                    |
|---|--------------------|
| Sample ID   | NSI-189            |
| Standard  | Ethylene Carbonate |
| Weight of Standard (wt <sub>st</sub> )                | 1.292              |
| Weight of Sample (wt <sub>sa</sub> )                  | 13.4569            |
| Sample Molecular Weight (MW <sub>sa</sub> )           | 366.5              |
| Standard Molecular Weight (MW <sub>st</sub> )         | 88.06              |
| Integration of Sample (I <sub>sa</sub> )              | 61.81              |
| Integration of Standard (I <sub>st</sub> )            | 100                |
| # of Equivalent Nuclei in Standard (n <sub>st</sub> ) | 4                  |
| # of Equivalent Nuclei in Sample (n <sub>sa</sub> )   | 1                  |
| Assigned Purity of Standard % (P)                     | 99.71              |
| Purity %  | 98.5               |

Formula Used for Calculation:

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