



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-273670  
Lot Number: SAMPLE  
Product Name: 1H-1,5-benzodiazepine-2,4(3H,5H)-dione  
CAS Number: 49799-48-6  
Molecular Formula:  $C_9H_8N_2O_2$   
Molecular Weight: 176.171  
Native Source: Synthetic

| Test                               | Specification | Result                                       |
|------------------------------------|---------------|----------------------------------------------|
| Appearance                         |               | White to off white solid                     |
| Identification (1H-NMR)            |               | Consistent with structure                    |
| Identification (Mass Spectrometry) |               | Consistent with structure                    |
| Purity (TLC)                       |               | 98%                                          |
| Atmosphere                         |               | Air                                          |
| Melting Point                      |               | > 300 °C                                     |
| Solubility                         |               | DMSO (Slightly), Methanol (Slightly, Heated) |
| Carbon Content                     | 61.36%        | 61.46%                                       |
| Hydrogen Content                   | 4.58%         | 4.72%                                        |
| Nitrogen Content                   | 15.90%        | 15.73%                                       |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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