



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-471444  
Lot Number: SAMPLE  
Product Name: 1,2,3,4,7,8-Hexachlorodibenzodioxin  
CAS Number: 39227-28-6  
Molecular Formula:  $C_{12}H_2Cl_6O_2$   
Molecular Weight: 390.86  
Native Source: Synthetic

| Test                         | Specification | Result                                                                     |
|------------------------------|---------------|----------------------------------------------------------------------------|
| Appearance                   |               | Off-white to pale brown solid                                              |
| Identification ( $^1H$ -NMR) |               | Consistent with structure                                                  |
| Purity (TLC)                 |               | 96%                                                                        |
| Atmosphere                   |               | Air                                                                        |
| Melting Point                |               | 252 - 254 °C                                                               |
| Solubility                   |               | Chloroform (slightly, heated), Ethyl Acetate (slightly, heated, sonicated) |
| Carbon Content               | 36.87%        | 36.78%                                                                     |
| Hydrogen Content             | 0.52%         | 0.53%                                                                      |

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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