

## Certificate of Analysis

Date of Testing: 2022-02-19 18:45:18  
Date of Next Testing: 2026-02-18 18:45:18  
Product Name: **4,5-Dicyanoimidazole**  
CAS Number: 1122-28-7  
Specifications & Purity: 98%  
Lot #: D1803089  
SKU #: **D109319**  
**Analysis:** **075668**  
Storage Temperature: Store at 2-8°C, Desiccated

| Parameter  | Limit Values                               | Result                                     |
|--|--|--|
| Purity(HPLC)   | 98-100 (%)                                 | 98.67200%                                  |
| Nitrogen by Elemental Analysis                           | 46-47.9 (%)                                | 47.75%                                     |
| Carbon by Elemental Analysis                             | 49.3-51.3 (%)                              | 50.48%                                     |
| Appearance (D109319)                                     | White to Orange to Green powder to crystal | White to Orange to Green powder to crystal |
| Proton NMR spectrum                                      | Conforms to Structure                      | Conforms to Structure                      |
| Solubility, Clear, Colorless, 1.2 gm/10 ml; Acetonitrile | pass                                       | Pass                                       |



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QA & QC Manager