

## Certificate of Analysis

Date of Testing: 2022-07-14 16:17:51  
Date of Next Testing: 2026-07-13 16:17:51  
Product Name: **4,5-Dicyanoimidazole**  
CAS Number: 1122-28-7  
Specifications & Purity: 98%  
Lot #: G2213238  
SKU #: **D109319**  
**Analysis: 113089**  
Storage Temperature: Store at 2-8°C, Desiccated

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.95200%
Nitrogen by Elemental Analysis	46-47.9 (%)	47.70%
Carbon by Elemental Analysis	49.3-51.3 (%)	50.96%
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



John Su  
QA & QC Manager