

## Certificate of Analysis

Date of Testing: 2023-06-02 09:55:47

Date of Next Testing: 2027-06-01 09:55:47

Product Name: **4,5-Dicyanoimidazole**

CAS Number: 1122-28-7

Specifications & Purity: 99%

Lot #: E2325552

SKU #: **D109320**

**Analysis:** **206678**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis	49.8-51.3 (%)	50.62 %
Nitrogen by Elemental Analysis	46.4-47.9 (%)	47.51 %
Purity(HPLC)	99-100 (%)	99.74500 %
Water by Karl Fischer	0-0.5 (%)	0.20 %
Appearance (D109320)	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