

## Certificate of Analysis

Date of Testing: 2022-08-26 14:27:55

Date of Next Testing: 2026-08-25 14:27:55

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

CAS Number: 1122-28-7

Specifications & Purity: 99%

Lot #: H2220132

SKU #: **D109320**

**Analysis: 120925**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis	49.8-51.3 (%)	50.96 %
Purity(HPLC)	99-100 (%)	99.79200 %
Water by Karl Fischer	0-300 (ppm)	0.13 ppm
Nitrogen by Elemental Analysis	46.4-47.9 (%)	47.89 %
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