

Certificate of Analysis

Date of Testing: 2023-10-13 14:35:03

Date of Next Testing: 2027-10-12 14:35:03

Product Name: **4-Nitrobenzenesulfonic Acid Hydrate**

CAS Number: 138-42-1

Specifications & Purity: $\geq 98\%$

Lot #: J2309414

SKU #: **N102177**

Version: **1**

Analysis #: **285761**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	14-19 (%)	15.50 %
Purity(Neutralization titration)	97.5-102.5 (%)	100.60 %
Melting point	111-115 (°C)	112.20000 °C
Purity(HPLC)	98-100 (%)	100.00000 %
Appearance (N102177)	Light yellow to brown powder or crystals or solid	Light yellow to brown powder or crystals or solid
Solubility in H ₂ O , very faint turbidity	pass	Pass
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager