

## Certificate of Analysis

Date of Testing: 2022-06-16 11:51:51  
Date of Next Testing: 2026-06-15 11:51:51  
Product Name: **4,4'-Azobis(4-cyanovaleric acid)**  
CAS Number: 2638-94-0  
Specifications & Purity: 98%,contains ca. 20% Water  
Lot #: F2213181  
SKU #: **A106307**  
**Analysis: 082731**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-20 (%)	15.57%
Purity(Neutralization titration)(calcd.on anh.substance)	97.5-102.5 (%)	97.51%
Appearance (A106307)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager