

## Certificate of Analysis

Date of Testing: 2022-07-06 16:13:44  
Date of Next Testing: 2024-06-25 16:13:44  
Product Name: **Valeric acid**  
CAS Number: 109-52-4  
Specifications & Purity: analytical standard  
Lot #: G2203401  
SKU #: **V108271**  
**Analysis:** **109911**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.81 %
Density (20°C)	0.939-0.942	0.94
Refractive index n <sub>20</sub> /D	1.407-1.411	1.41
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager