

## Certificate of Analysis

Date of Testing: 2022-12-07 19:14:42  
Date of Next Testing: 2026-12-06 19:14:42  
Product Name: **1,4-Butylenediphosphonic Acid**  
CAS Number: 4671-77-6  
Specifications & Purity: 98%  
Lot #: L2203260  
SKU #: **B153208**  
**Analysis:** **132082**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	218-223 (°C)	220.86000 °C
Purity(Neutralization titration)	97.5-102.5 (%)	99.52 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager