

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-22 13:13:34  
Date of Next Testing: 2025-12-11 13:13:34  
Product Name: **4-Bromo-1H-imidazole**  
CAS Number: 2302-25-2  
Specifications & Purity: 97%  
Lot #: C2224184  
SKU #: **B119330**  
**Analysis: 307856**  
Storage Temperature: Argon charged

| Parameter                      | Limit Values  | Result  |
|--------------------------------|---|---|
| Melting point                  | 131-135 (°C)  | 134.95000 °C  |
| Purity(GC)                     | 97-100 (%)  | 99.19 %   |
| Nitrogen by Elemental Analysis | 18.4-19.7 (%)   | 18.53 %   |
| Purity(Nonaqueous Titration)   | 97-100 (%)  | 98.00 %   |
| Carbon by Elemental Analysis   | 23.6-25.4 (%)   | 24.10 %   |
| Appearance (B119330)           | White to Light yellow to Light orange powder to crystal | White to Light yellow to Light orange powder to crystal |
| Proton NMR spectrum            | Conforms to structure                                   | Conforms to Structure                                   |



John Su  
QA & QC Manager