

## Certificate of Analysis

Date of Testing: 2024-08-23 15:44:36  
Date of Next Testing: 2026-08-13 15:44:36  
Product Name: **1-Bromo-4-fluorobenzene**  
CAS Number: 460-00-4  
Specifications & Purity: 98%  
Lot #: K2222510  
SKU #: **B107758**  
Version: **0**  
Analysis #: **403610**

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Density (20°C)                      | 1.592-1.606                      | 1.60                             |
| Refractive index n <sub>20</sub> /D | 1.526-1.531                      | 1.53                             |
| Purity(GC)                          | 98-100 (%)                       | 99.69%                           |
| Appearance (B107758)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                 | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager