

## Certificate of Analysis

Date of Testing: 2024-04-25 09:56:06

Date of Next Testing: 2026-04-15 09:56:06

Product Name: **4-Chlorobutyl chloride**

CAS Number: 4635-59-0

Specifications & Purity: 98%

Lot #: G2222246

SKU #: **C109449**

**Analysis:** **346202**

Storage Temperature: Argon charged

| Parameter                           | Limit Values               | Result                     |
|-------------------------------------|----------------------------|----------------------------|
| Purity(GC)                          | 98-100 (%)                 | 99.10 %                    |
| Refractive index n <sub>20</sub> /D | 1.46-1.464                 | 1.46                       |
| Density (20°C)                      | 1.256-1.263                | 1.26                       |
| Appearance (C109449)                | Colorless to Yellow Liquid | Colorless to Yellow Liquid |
| Proton NMR spectrum                 | Conforms to Structure      | Conforms to Structure      |



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