

## Certificate of Analysis

Date of Testing: 2023-02-13 15:32:27  
Date of Next Testing: 2025-02-12 15:32:27  
Product Name: **Ethanesulfonyl Chloride**  
CAS Number: 594-44-5  
Specifications & Purity:  $\geq 98.0\%$   
Lot #: E2112313  
SKU #: **E136203**  
**Analysis:** **186940**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.15 %
Refractive index n <sub>20</sub> /D	1.453-1.455	1.45
Density (20°C)	1.358-1.362	1.36
Purity (Argentmetric Titration)	98-100 (%)	98.14 %
Appearance (E136203)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager