

## Certificate of Analysis

Date of Testing: 2022-05-05 14:34:43  
Date of Next Testing: 2024-05-04 14:34:43  
Product Name: **Cyclopropanecarboxylic acid chloride**  
CAS Number: 4023-34-1  
Specifications & Purity: 98%  
Lot #: F2009128  
SKU #: **C133840**  
**Analysis:** **087630**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.15 %
Density (20°C)	1.143-1.151	1.15
Refractive index n <sub>20</sub> /D	1.451-1.454	1.45
Purity (Argentometric Titration)	98-100 (%)	98.20 %
Appearance (C133840)	Colorless to Yellow to Red to Purple Liquid	Colorless to Yellow to Red to Purple Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager