

## Certificate of Analysis

Date of Testing: 2023-03-13 14:44:51  
Date of Next Testing: 2025-08-29 14:44:51  
Product Name: **5-Chlorovaleroyl chloride**  
CAS Number: 1575-61-7  
Specifications & Purity: 98%  
Lot #: K2019204  
SKU #: **C102473**  
**Analysis:** **198141**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.08 %
Refractive index n <sub>20</sub> /D	1.462-1.466	1.46
Purity(Neutralization titration)	97.5-102.5 (%)	98.20 %
Density (20°C)	1.205-1.209	1.21
Appearance (C102473)	colorless to pale yellow liquid	colorless to pale yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager