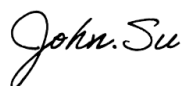


Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2022-09-16 16:45:21
Date of Next Testing: 2026-09-15 16:45:21
Product Name: **1-Chloroethyl chloroformate**
CAS Number: 50893-53-3
Specifications & Purity: 98%
Lot #: I2209390
SKU #: **C100655**
Analysis: **117426**

Parameter	Limit Values	Result
Density (20°C)	1.312-1.316	1.31400
Water by Karl Fischer	0-0.1 (%)	0.03600 %
Purity(GC)	98-100 (%)	99.86600 %
Refractive index n ₂₀ /D	1.422-1.425	1.42400
Appearance (C100655)	colorless to brown liquid	colorless to brown liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager