

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-05-27 09:44:58

Date of Next Testing: 2026-05-26 09:44:58

Product Name: **Ethyl 3,3,3-trifluoropyruvate**

CAS Number: 13081-18-0

Specifications & Purity: 98%

Lot #: E1810010

SKU #: **E101007**

Analysis: **080738**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.283-1.287	1.28
Refractive index n ₂₀ /D	1.338-1.342	1.34
Purity(GC)	98-100 (%)	98.01 %
Appearance (E101007)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Fluorine NMR Spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager