

## Certificate of Analysis

Date of Testing: 2023-03-13 13:47:59  
Date of Next Testing: 2024-03-12 13:47:59  
Product Name: **Trifluoroacetic acid (TFA)**  
CAS Number: 76-05-1  
Specifications & Purity: Analytical Reagent,99.0%  
Lot #: F2201153  
SKU #: **T103291**  
**Analysis:** **198051**  
Storage Temperature: Argon charged,Desiccated

Parameter	Limit Values	Result
Purity (Titration by NaOH)	98.5-101.5 (%)	99.58 %
Density (20°C)	1.491-1.495	1.49
Water by Karl Fischer	0-0.1 (%)	0.02 %
Refractive index n <sub>20</sub> /D	1.283-1.3	1.29
Appearance (T103291)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager