

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-06-17 15:20:38  
Date of Next Testing: 2025-06-16 15:20:38  
Product Name: **Tributyl citrate**  
CAS Number: 77-94-1  
Specifications & Purity:  $\geq 98\%$   
Lot #: F2104235  
SKU #: **T105179**  
Version: **0**  
Analysis #: **013084**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Acidity (as citric acid)	0-0.02 (%)	0.01%
Sulfate Ash	0-0.05 (%)	0.03
Density (20°C)	1.043-1.047	1.04
Refractive index n <sub>20</sub> /D	1.443-1.446	1.45
Purity(GC)	98-100 (%)	98.83%
Water by Karl Fischer	0-0.3 (%)	0.15%
Appearance (T105179)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager