

Certificate of Analysis

Date of Testing: 2023-04-25 11:47:41

Date of Next Testing: 2027-04-24 11:47:41

Product Name: **Ethanesulfonic acid**

CAS Number: 594-45-6

Specifications & Purity: 90%

Lot #: D23142166

SKU #: **E113372**

Analysis: **153641**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	90-100 (%)	96.17 %
Density (20°C)	1.337-1.346	1.34
Appearance (E113372)	colorless to yellow to brown liquid	colorless to yellow to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager