

Certificate of Analysis

Date of Testing: 2023-05-13 15:34:58

Date of Next Testing: 2027-05-12 15:34:58

Product Name: **1,2-Dichlorobutane**

CAS Number: 616-21-7

Specifications & Purity: $\geq 96\%$

Lot #: E2308786

SKU #: **D155318**

Version: **0**

Analysis #: **206662**

Parameter	Limit Values	Result
Density (20°C)	1.118-1.123	1.12
Refractive index n _{20/D}	1.443-1.446	1.45
Purity(GC)	96-100 (%)	98.96 %
Appearance (D155318)	Colorless to light yellow liquid	Colorless to light yellow 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