

Certificate of Analysis

Date of Testing: 2025-05-13 15:58:04

Date of Next Testing: 2027-05-13 15:58:04

Product Name: **4-Butylcyclohexanecarboxylic Acid (cis- and trans- mixture)**

CAS Number: 71101-89-8

Specifications & Purity: $\geq 98\%$ (GC)

Lot #: G2326150

SKU # **B135677**

Version **2**

Analysis #: **509158**

Parameter	Limit Values	Result
Density (20°C)	0.973-0.979	0.97
Refractive index n ₂₀ /D	1.463-1.469	1.46
Purity(Mixture of isomers,GC)	98-100 (%)	98.89 %
Purity(Neutralization titration)	98-100 (%)	98.06 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance(B135677)	Colorless to Almost colorless clear liquid	Colorless to almost colorless clear liquid



John Su
QA & QC Manager