

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-09 17:57:15
 Date of Next Testing: 2026-12-08 17:57:15
 Product Name: **2,3-Dichloropyrazine**
 CAS Number: 4858-85-9
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: K2230332
 SKU #: **D123437**
 Version: **2**
 Analysis #: **134020**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.40400 %
Carbon by Elemental Analysis	31.2-32.3 (%)	31.87300 %
Purity(O ₂ AgNO ₃ titration with after combustion)	97.5-102.5 (%)	99.50000 %
Nitrogen by Elemental Analysis	18.1-19 (%)	18.98000 %
Appearance (D123437)	White or Colorless to Light yellow powder to lump to clear liquid	White or Colorless to Light yellow powder to lump to clear liquid
Solubility in MeOH	almost transparency	almost transparency
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager