

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-09 20:39:59
 Date of Next Testing: 2027-03-08 20:39:59
 Product Name: **N-(2-Hydroxyethyl)piperazine**
 CAS Number: 103-76-4
 Specifications & Purity: $\geq 98\%$
 Lot #: C2307173
 SKU #: **H101744**
 Version: **0**
 Analysis #: **048317**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.00300 %
Density (20°C)	1.061-1.063	1.06200
Water by Karl Fischer	0-0.5 (%)	0.25000 %
Refractive index n ₂₀ /D	1.5055-1.5075	1.50570
Appearance (H101744)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager