

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-21 19:06:02

Date of Next Testing: 2026-09-20 19:06:02

Product Name: **Homopiperazine**

CAS Number: 505-66-8

Specifications & Purity:  $\geq 98\%$

Lot #: I2212015

SKU #: **H106298**

Version: **1**

Analysis #: **113662**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                      | Limit Values                                 | Result                                       |
|--------------------------------|----------------------------------------------|----------------------------------------------|
| Purity(GC)                     | 98-100 (%)                                   | 99.12100 %                                   |
| Purity(Nonaqueous Titration)   | 98-100 (%)                                   | 99.38200 %                                   |
| Melting point                  | 41-45 (°C)                                   | 42.68000 °C                                  |
| Appearance (H106298)           | Colorless to White to Yellow Liquid or Solid | Colorless to White to Yellow Liquid or Solid |
| Infrared spectrum              | Conforms to Structure                        | Conforms to Structure                        |
| Proton NMR spectrum            | Conforms to Structure                        | Conforms to Structure                        |
| Solubility in H <sub>2</sub> O | Almost transparency                          | almost transparency                          |



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