

## Certificate of Analysis

Date of Testing: 2024-01-19 10:44:35  
Date of Next Testing: 2028-01-18 10:44:35  
Product Name: **1-Phenylpiperazine**  
CAS Number: 92-54-6  
Specifications & Purity: 97%  
Lot #: C2024142  
SKU #: **P101918**  
**Analysis:** **315897**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.068-1.072	1.07
Refractive index n <sub>20</sub> /D	1.588-1.59	1.59
Purity(GC)	97-100 (%)	97.25 %
Appearance (P101918)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager