

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

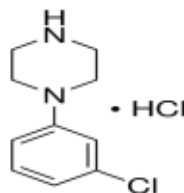
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

1-(3-Chlorophenyl)piperazine hydrochloride - 99%

**Product Number:** 125180  
**Batch Number:** MKBV6078V  
**Brand:** ALDRICH  
**CAS Number:** 65369-76-8  
**MDL Number:** MFCD00039032  
**Formula:** C<sub>10</sub>H<sub>13</sub>ClN<sub>2</sub> · xHCl  
**Formula Weight:** 196.68 g/mol  
**Quality Release Date:** 15 MAY 2015



Test	Specification	Result
Appearance (Color)	Off-White to Brown	white
Appearance (Form)	Powder	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Carbon (as 1 HCl)	50.8 - 52.8 %	51.4 %
Nitrogen (as 1 HCl)	11.8 - 12.3 %	12.1 %

Ali Ataei, Manager  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.