

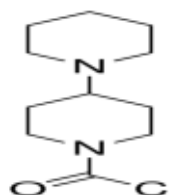
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## Product Specification

Product Name:  
4-Piperidinopiperidine-1-carbonyl chloride

Product Number: **720844**  
CAS Number: 103816-19-9  
Formula: C<sub>11</sub>H<sub>19</sub>ClN<sub>2</sub>O  
Formula Weight: 230.73 g/mol



TEST	Specification
Appearance (Color)	White to Orange
Appearance (Form)	Powder or Crystals
Infrared spectrum	Conforms to Structure
Proton NMR spectrum cdcl <sub>3</sub>	Conforms to Structure
Titration by AgNO <sub>3</sub>	88.0 - 112.0 %
Purity (GC)	≥ 88.0 %
Recommended Retest Period 4 years	-----

Specification: PRD.1.ZQ5.10000009166

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](http://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.