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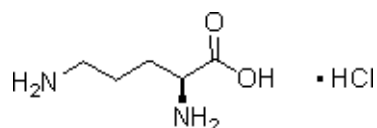
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## Product Specification

Product Name:  
L-Ornithine hydrochloride - 99%

**Product Number:** W419001  
**CAS Number:** 3184-13-2  
**MDL:** MFCD00064562  
**Formula:** C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub> · HCl  
**Formula Weight:** 168.62 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form) Powder or Crystalline Powder	Conforms to Requirements
Infrared spectrum	Conforms to Structure
Titration by AgNO <sub>3</sub>	98.5 - 101.5 %
Optical Rotation c = 2%, 5M(N) HCl	21.9 - 23.2 deg
Arsenic (As)	≤ 3 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 1 ppm
Lead (Pb)	≤ 10 ppm

Specification: PRD.1.ZQ5.10000018897

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.