

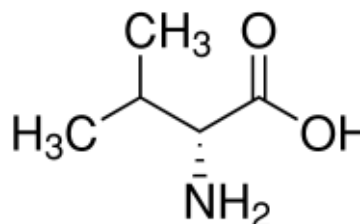
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## Product Specification

Product Name:  
D-Valine -  $\geq 98\%$ 

Product Number: **855987**  
CAS Number: 640-68-6  
MDL: MFCD00064219  
Formula: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>  
Formula Weight: 117.15 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form) Powder, Crystals, Flakes, Crystalline Flakes or Crystalline Powder	Conforms to Requirements
Infrared spectrum	Conforms to Structure
Carbon	50.2 - 52.3 %
Nitrogen	11.7 - 12.2 %
Optical Rotation c = 8%, 6N Hydrochloric Acid	-32.0 - -24.0 deg
Enantiomeric Excess	$\geq 98.5$ %
Purity (TLC)	$\geq 98$ %
Solubility (Turbidity) c = 50 mg/ml (5%), Water	Clear to Very Slightly Hazy
Solubility (Color)	Colorless

Specification: PRD.0.ZQ5.10000015142

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.