



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## Certificate of Analysis

Catalog Number	04-395
Product Name	L-Azetidine-2-carboxylic acid
Lot Number	1034212
CAS Registry Number	2133-34-8
Molecular Formula	C <sub>4</sub> H <sub>7</sub> NO <sub>2</sub>
Molecular Weight	101.1
Appearance	Pale brown, fine crystalline powder
Solubility	Clear, colorless solution (50mg/ml in AcOH 80%)
Melting point	214°C
Optical Rotation	$\alpha_D^{24} = -124.9^\circ$ (1% in water)
Identification by <sup>1</sup> H NMR, <sup>13</sup> C NMR, and IR	Conforms to structure
Identification (elemental analysis)	Theory: C = 47.5%, H = 7.0%, N = 13.9% Found: C = 47.5%, H = 7.1%, N = 13.9%
Identification by TLC	Complies to standard
Purity by TLC	>99%
n-butanol/acetic acid/H <sub>2</sub> O (4/2/2) Isopropanol/ammonia conc. (1/1) MeOH/CHCl <sub>3</sub> /Ammonia 17% (2/2/1)	Plate: Silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, TMB.
Enantiomer content (GC)	0.1% D-enantiomer
Water content (KF volumetric)	0.9%
Assay (elemental analysis)	Based on Nitrogen content 100.4% Theory N: 13.85% , Found N: 13.90%
Storage	Store at 0-5°C