



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

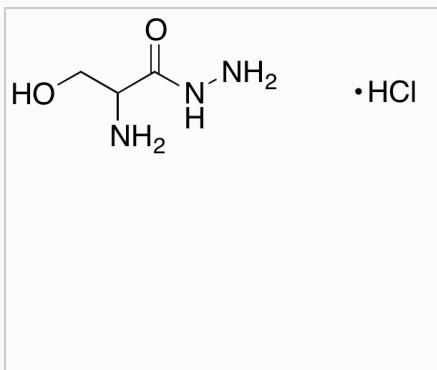
Catalogue Number: S271015

CAS Number: 55819-71-1

Product: DL-Serine Hydrazide Hydrochloride

Synonym: Serine Hydrazide Monohydrochloride;
Benserazide EP Impurity A

Structure:



Molecular Formula:

C₃H₁₀ClN₃O₂

Molecular weight:

155.58

Source of Product:

N/A

Solubility:

Methanol (Slightly, Heated,
Sonicated), Water (Slightly)

Lot Number: 1-LJC-36-1

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped
At Room Temperature

Storage Condition: 20°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
Specific Rotation	Report Result	0.0° (c = 0.7, Water)
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 23.37, %H: 6.54, %N: 26.87
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	95.39% (ELSD)

Additional Information:

TLC Conditions: C18 Methanol : Water : Ammonium Hydroxide = 5 : 5 : 0.5; Visualized with AMCS and KMnO₄; Single Spot, R_f = 0.75. Elemental Analysis: (Theoretical) %C: 23.16, %H: 6.48, %N: 27.01

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Eric Beaton	Toni Rantanen	My Nguyen	2/26/2020	2/24/2027