

DL-norvaline

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue N712015 CAS 760-78-1 Number: Number:

> Synonym: (\pm) -2-Aminopentanoic Acid; (\pm) -Norvaline;

> > 20: PN: WO2005055994 PAGE: 50 claimed protein; DL-2-Aminovaleric Acid; DL-a-Aminovaleric Acid; NSC 7904; a-DL-

Aminopentanoic Acid

Molecular Formula:

C5H11NO2

Molecular weight:

117.15

Source of Product:

N/A

Solubility:

Aqueous Acid (Slightly),

Water (Slightly)

Purity: 98%

Storage Condition: -20°C

Structure:

Product:

Number:

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

2023-HAB-088

2. Warning

Lot

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid Appearance

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 51.19, %H: 9.54, %N: 11.85

HPLC Purity Report Result 98.04% (ELSD)

MS Conforms to Structure Conforms

Additional Information: N/A

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

C of A Approved **Reviewed By Test Date Retest Date Reviewed By** By

Chanell Chu Nicole Yip Toni Rantanen 10/11/2023 10/9/2027