

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue C369850

Product: 2-(Chloromethyl)-4-methylguinazoline

Structure:

 $\textbf{CAS Number:} \quad 109113\text{-}72\text{-}6$

Synonym: NSC 48971; Linagliptin 2-

Chloromethyl Impurity

Molecular Formula:

C10H9CIN2

Molecular weight:

192.64

Source of Product:

N/A

Solubility:

Chloroform (Slightly), Methanol (Slightly)

Purity: 98%

Storage

Condition: 4°C

Lot Number: 1-PQY-23-1

Shipping This Product Is Stable To Be Shipped At

Condition: Room Temperature

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests:Specifications:Results:MSConforms to StructureConformsNMRConforms to StructureConforms

HPLC Purity Report Result 99.93% (235 nm)

Appearance White to Pale Yellow Solid White to Off-White Solid

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 \pm 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
Reviewed By
C of A Approved
By
Test Date
Retest Date

Farnaz Mahmoudi
Toni Rantanen
Chanell Chu
5/19/2023
5/17/2030

Farnaj Tt.

for

Charrell Ri