

Certificate of Analysis

Reference Material & Standard

Product Name:	(S)-(+)-3-Quinuclidinol	Catalogue Number:	CCHM700246
Synonyms:	N/A	Lot Number:	1-F-43B-1
CAS Number:	34583-34-1	Expiry Date:	Aug 25, 2028
Molecular Formula:	C ₇ H ₁₃ NO	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	127.18		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	White Crystalline Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.846%
Loss on Drying	TGA	1.2907%
Assay		98.6%
Uncertainty		±2.0%

Comment:

CATO Research Chemicals Inc.

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity GC (\%)} / 100\%$

Loss on Drying is considered as absolute effect, GC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

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Approved by General Manager:

David

Date: Aug 26, 2024

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