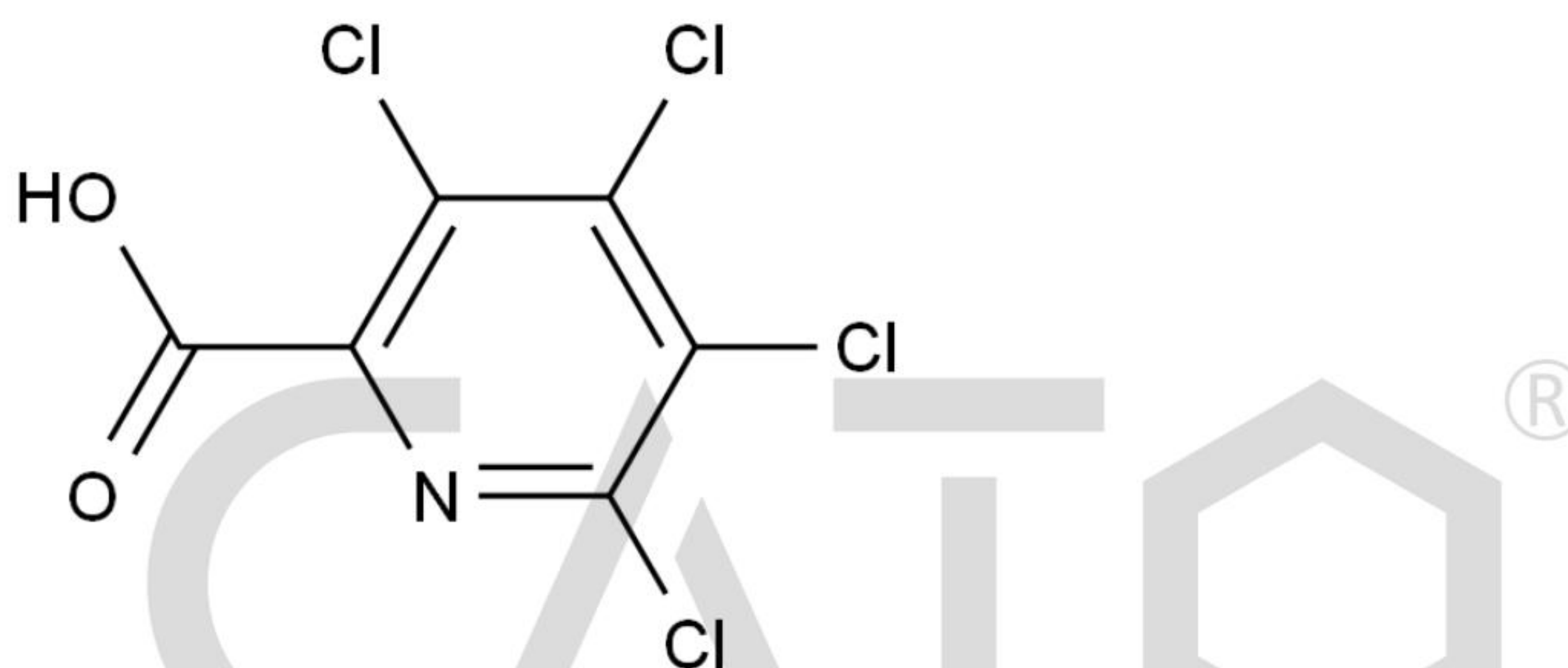


Certificate of Analysis

Reference Material & Standard

Product Name:	3,4,5,6-Tetrachloropicolinic acid	Catalogue Number:	CS114915
Synonyms:	N/A	Lot Number:	0825-RG-0040
CAS Number:	10469-09-7	Expiry Date:	Aug 24, 2029
Molecular Formula:	C ₆ HCl ₄ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	260.89	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	95.165%
Water Content	Karl Fischer	11.5086%
Residue on Ignition	TGA	0.2566%
Assay		84.0%
Uncertainty		±1.5%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content} - \text{Residue on Ignition}) * \text{Purity HPLC (\%)} / 100\%$

Water Content and Residue on Ignition are considered as absolute effect, HPLC 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 25, 2025

Date: Aug 25, 2025

Date: Aug 25, 2025

