

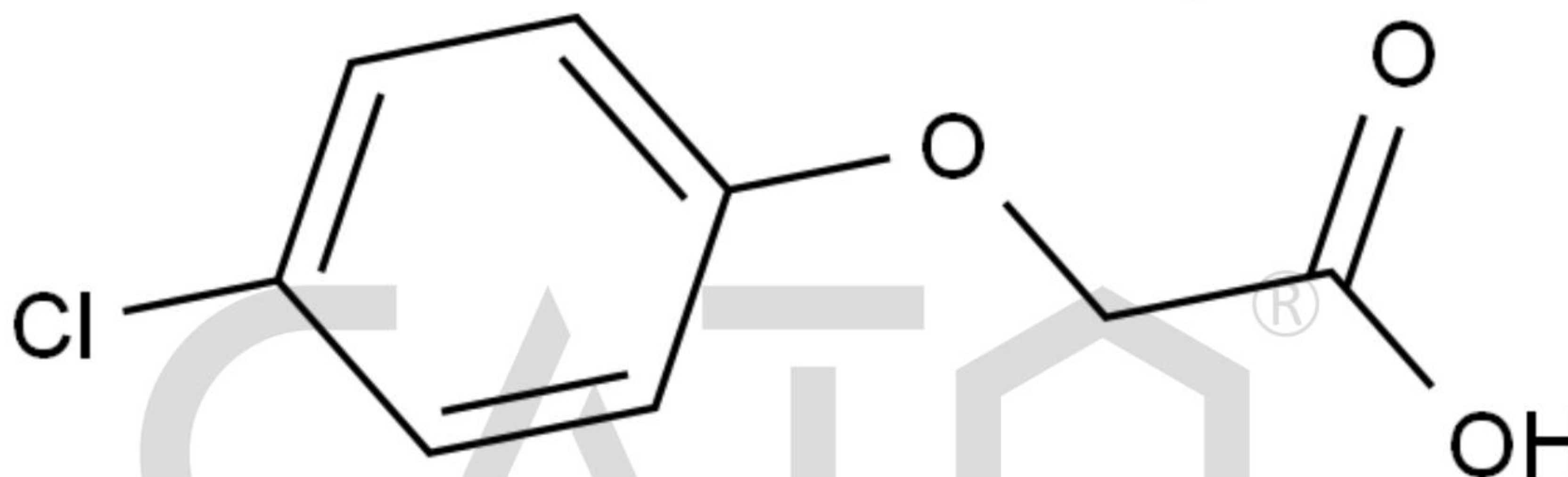
Certificate of Analysis

Reference Material & Standard

Product Name:	4-Chlorophenoxyacetic Acid	Catalogue Number:	CCPD100035
Synonyms:	N/A	Lot Number:	0325-RA-0014
CAS Number:	122-88-3	Expiry Date:	May 11, 2029
Molecular Formula:	C ₈ H ₇ ClO ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	186.59	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	0.3686%
Assay		99.6%
Uncertainty		±0.2%

Comment:

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

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

Water Content is 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:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: May 12, 2025

Date: May 13, 2025

Date: May 13, 2025

