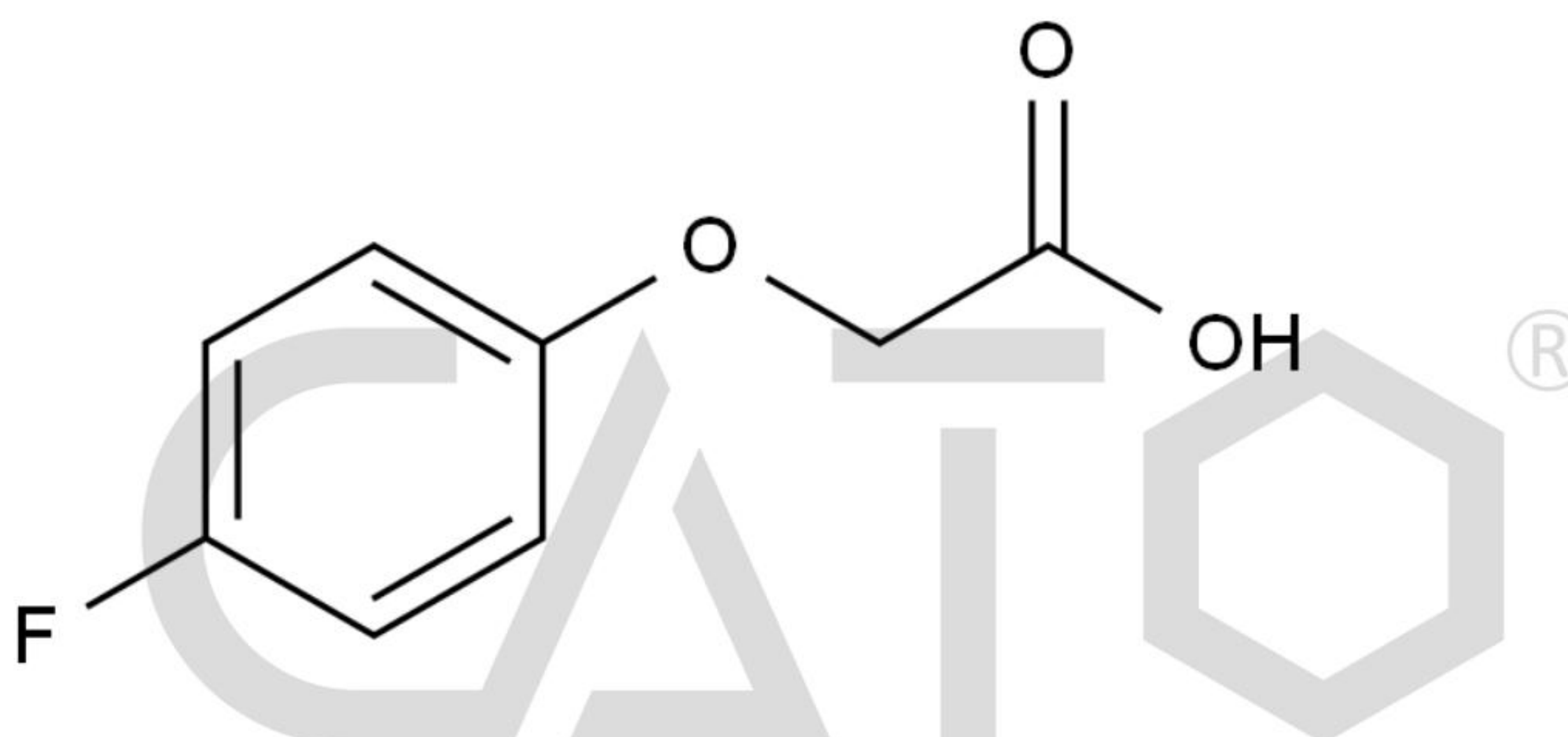


Certificate of Analysis

Reference Material & Standard

Product Name:	4-Fluorophenoxyacetic Acid	Catalogue Number:	CCHM701284
Synonyms:	N/A	Lot Number:	0531-RA-0001B
CAS Number:	405-79-8	Expiry Date:	Feb 14, 2027
Molecular Formula:	C ₈ H ₇ FO ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	170.14	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.7978%
Water Content	Karl Fischer	0.5638%
Assay		99.2%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content) * 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:

Hinlam

Reviewed by:

Xenia

Aporoved by General Manager:

David

Date: Feb 15, 2023

Date: Feb 17, 2023

Date: Feb 17, 2023

