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CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2023

Re-test Date: Jan 2025

Product Name: Tiotropium EP Impurity A

Identification:

Chemical Name: 2-Hydroxy-2,2-dithiophen-2-ylacetic acid

Synonyms : Di-2-thienylglycolic Acid

CAS Number : 4746-63-8

CAT Number : CP-T22001

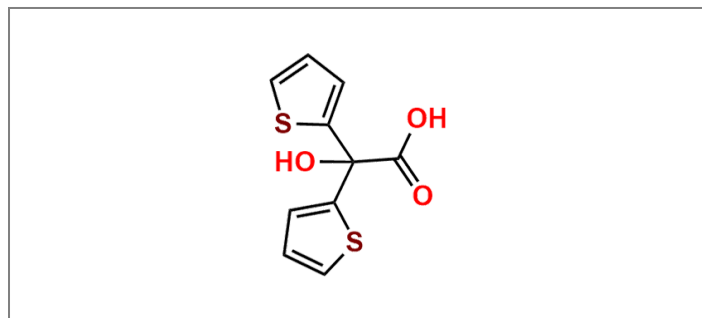
Molecular Formula : C₁₀H₈O₃S₂

Molecular Weight : 240.29

Batch Number : CHEM-TIO-A

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



Analytical Information:

Sr. No.	Test	Result
1)	Description	Light Grey to Black Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	97.51%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure
7)	Weight loss by TGA	0.56%
8)	Potency by TGA	96.95%



Prepared and Reviewed By

Ms Priyanka Salunkhe
(Manager QC Analytical)

Approved By

Ms Rohini Gagare
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.