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CERTIFICATE OF ANALYSIS

Analysis Date: Dec 2023

Re-test Date: Nov 2026

Product Name: Polyquaternium 1

Identification:

Chemical Name: α -[4-[Tris(2-hydroxyethyl)ammonio]-2-buten-1-yl]- ω -[tris(2-hydroxyethyl)ammonio]poly[(dimethyliminio)-2-butene-1,4-diyl Chloride] Chloride

Synonyms : Polidronium Chloride; Polyquad

CAS Number : 75345-27-6

CAT Number : CP-CS0383

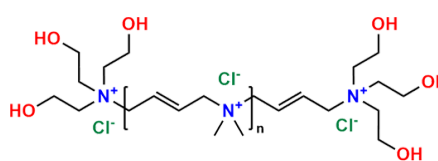
Molecular Formula : $(C_6H_{12}ClN)_n C_{16}H_{36}Cl_2N_2O_6$

Molecular Weight : NA

Batch Number : CP-POL-IN-0923

Storage Condition : Tightly closed, Inert atmosphere at $-20^{\circ}C$

Shipping condition : At low temperature with dry ice and ice pack gel



Analytical Information:

Sr. No.	Test	Result
1)	Description	Off White Highly Hygroscopic Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By ELSD	100%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure



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.