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CERTIFICATE OF ANALYSIS

Analysis Date: Feb 2026

Re-test Date: Jan 2029

Product Name: Melphalan EP Impurity H Hydrochloride

Identification:

Chemical Name: methyl 4-[bis(2-chloroethyl)amino]-L-phenylalaninate hydrochloride

Synonyms : Melphalan Methyl Ester

CAS Number : 62978-52-3

CAT Number : CP-M9048

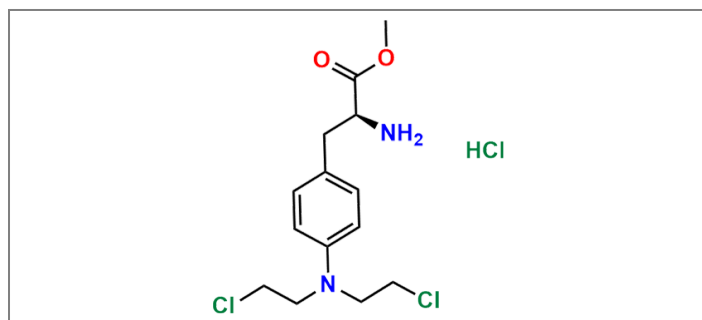
Molecular Formula : C₁₄H₂₀Cl₂N₂O₂ : HCl

Molecular Weight : 319.23 : 36.46

Batch Number : CP-38-64

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 | Brown solid |
| 2) | Solubility | Soluble in MeOH/ DMSO |
| 3) | MASS By LCMS | Confirm to Structure by mass |
| 4) | Purity by HPLC | 97.12% |
| 5) | ¹ H NMR | Confirm to Structure |
| 6) | IR | Confirm to Structure |
| 7) | Weight loss by TGA | - |
| 8) | Potency by TGA | - |



Prepared and Reviewed By



Ms Priyanka Salunkhe
(Quality Control)

Approved By



Ms Rohini Gagare
(Quality Assurance)

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