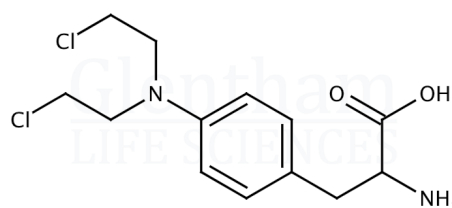


Certificate of Analysis

Product Name Melphalan, USP grade
Glentham Code GP3789
CAS Number 148-82-3
EINECS 205-726-3
MDL Number MFCD00057717
PubChem SID 310276105
Batch Number 766UFR

Molecular Weight 305.20
Molecular Formula $C_{13}H_{18}Cl_2N_2O_2$
Storage Temp. +20°C



Property	Specification	Batch 766UFR
Physical Description	White to almost white powder	Conforms
Identification	According to USP	Conforms
Residue on Ignition	≤ 0.3%	0.04%
Nitrogen (N)	8.90 - 9.45 %	Conforms
Specific Optical Rotation	-30 - -36 °	-31.23°
Loss on Drying	≤ 7.0%	3.93%
Ionisable Chlorine	≤ 1.0ml (of 0.1N silver nitrate per 500mg)	Conforms
Assay	94.0 - 100.5 % (dried, ionisable chlorine-free basis)	98.23%
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version v1.0
Manufacture Date 2017-10-20
Re-Test Date 2025-10-31

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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