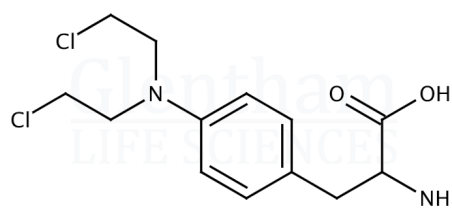


## Certificate of Analysis

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 <sub>13</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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