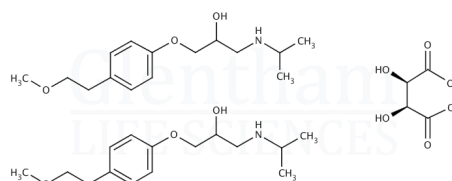


Product Specification

Product Name	Metoprolol tartrate, EP grade
Glentham Code	GP9016
CAS Number	56392-17-7
EINECS	260-148-9
MDL Number	MFCD00056257
Additional CAS	51384-51-1
Molecular Weight	684.82
Molecular Formula	$(C_{15}H_{25}NO_3)_2 \cdot C_4H_6O_6$
Storage Temp.	+20°C



Property	Specification
Physical Description	White or almost white crystalline powder, or colourless crystals
Identification (IR)	To conform to standard
Specific Optical Rotation	+7.0 - +10.0 ° (c=2, water)
Solubility (2% in water)	Clear solution, colour: ≤ B8
pH (2% in water)	6.0 - 7.0
Impurities M, N, O (TLC)	To pass EP tests (a) ≤ 0.5%, (b) ≤ 0.2%
Impurities A, B, C, D, E, F, G, H, J (HPLC)	≤ 0.30% (each)
Any Individual Impurity (HPLC)	≤ 0.10%
Total Impurities (HPLC)	≤ 0.50%
Sulphated Ash	≤ 0.1%
Loss on Drying	≤ 0.5%
Assay	99.0 - 100.5 % (dried substance)
Pharmacopoeia Specification(s)	EP

Specification Version	-	v1.0
Date Created	-	2018-06-13

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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