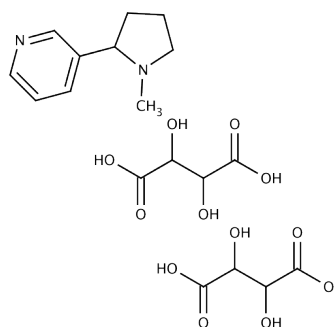


## Product Specification

Product Name	(-)-Nicotine hydrogen tartrate salt
Glentham Code	GL9693
CAS Number	65-31-6
EINECS	200-607-2
MDL Number	MFCD00069368
Additional CAS	6019-06-3 (-2H <sub>2</sub> O)
Additional CAS	2624-48-8
Additional CAS	54-11-5 (base)
PubChem SID	295369473
Molecular Weight	462.41 (anhydrous)
Molecular Formula	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> · 2C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> (anhydrous)
Storage Temp.	+4°C



Property	Specification
Physical Description	White to almost white powder
Solubility	10% in water: Soluble 1% in 96% ethanol: Slightly soluble
Identification	IR
pH (10% in water)	3.0 - 3.4
Specific Optical Rotation	+21.0 - +23.0 ° (1% in water)
Related Substances (HPLC)	Any Specified Impurity: ≤ 0.3% (Continine, Myosmine, Nicotine-N-oxide, beta-Nicotyrine, Anatabine, Anabasine, Nornicotine) Unspecified Impurity: ≤ 0.1% Total Impurities: ≤ 0.8%
Water	6.9 - 8.0 %
Sulphated Ash	≤ 0.1%
Assay (HPLC)	98.5 - 101.5 % (anhydrous basis)
Residual Solvents	Ethanol: ≤ 5000ppm, Methanol: ≤ 3000ppm
Pharmacopoeia Specification(s)	EP

Specification Version	-	v1.1
Date Created	-	2014-08-01

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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