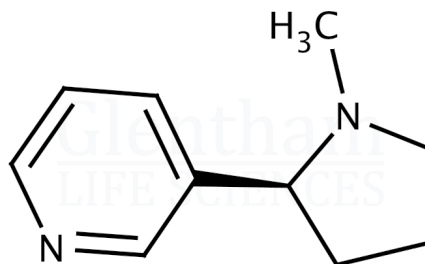


Product Specification

Product Name	S-(-)-Nicotine
Glentham Code	GK9991
CAS Number	54-11-5
EINECS	200-193-3
MDL-Nummer	MFCD00006369
PubChem SID	310277761
Molecular Weight	162.24
Molecular Formula	C ₁₀ H ₁₄ N ₂
Storage Temp.	+4°C



Property	Specification
Physical Description	Colourless or brownish viscous liquid
Assay	99.0 - 101.0 % (anhydrous)
Solubility	Soluble in water, miscible with anhydrous ethanol
Appearance of Solution	1g/10ml in water, Colour: < Y5, BY5 or R5
Specific Optical Rotation	-140 - -152 ° (1g/50ml in ethanol)
Water	≤ 0.5%
Identification	IR
	UV
Ethanol	≤ 0.5%
Hexane	≤ 0.03%
Heavy Metals	≤ 10ppm
Sulphated Ash	≤ 0.1%
Impurities	Nicotine-trans-N-oxide: ≤ 0.2%
	Nicotine-cis-N-oxide: ≤ 0.2%
	Myosmine: ≤ 0.5%
	Continine: ≤ 0.2%
	beta-Nicotyrine: ≤ 0.2%
	Nornicotine: ≤ 0.5%
	Anabasine: ≤ 0.3%
	Anatabine: ≤ 0.3%
	Total Nicotine-N-oxides: ≤ 0.3%
Any Unspecified Impurity	≤ 0.1%
Total Impurities	≤ 1.0%
Pharmacopoeia Specification(s)	EP

Specification Version	-	v1.0
Date Created	-	2013-07-02

Product Specification

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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