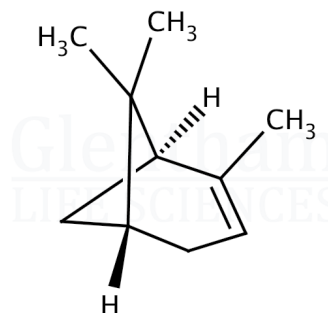


Certificate of Analysis

Product Name	(+)-alpha-Pinene
Glenthams Code	GL2550
CAS Number	7785-70-8
EINECS	232-087-8
MDL Number	MFCD00001346
PubChem SID	310279017
Batch Number	921IWR

Molecular Weight	136.24
Molecular Formula	C ₁₀ H ₁₆
Storage Temp.	+20°C



Property	Specification	Batch 921IWR
Physical Description	Clear, colourless liquid	Clear, colourless liquid
Refractive Index (20°C)	1.4640 - 1.4680	1.4645
Specific Optical Rotation ([α] _{20/D})	+38.0 - +46.0 ° (neat)	Conforms
Purity (GC)	≥ 97.0%	98.8%

Specification Version	v1.0
Manufacture Date	2021-11-09
Re-Test Date	2030-02-16

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

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