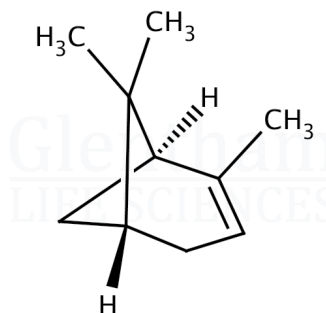


Certificate of Analysis

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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