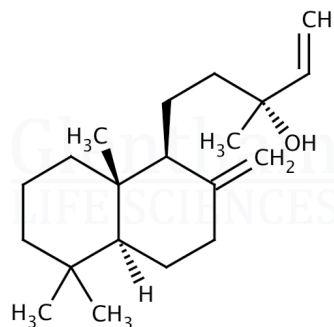


## Certificate of Analysis

|               |              |
|---------------|--------------|
| Product Name  | Manool       |
| Glentham Code | GK1762       |
| CAS Number    | 596-85-0     |
| MDL Number    | MFCD01310996 |
| PubChem SID   | 310276056    |
| Batch Number  | 239WLY       |

|                   |                 |
|-------------------|-----------------|
| Molecular Weight  | 290.49          |
| Molecular Formula | $C_{20}H_{34}O$ |
| Storage Temp.     | +4°C            |



| Property             | Specification            | Batch 239WLY |
|----------------------|--------------------------|--------------|
| Physical Description | White to off-white solid | White solid  |
| Identification       | NMR                      | Conforms     |
| Melting Point        | 49 - 53 °C               | Conforms     |
| Purity (GC)          | ≥ 95.0%                  | 99.1%        |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2019-10-25 |
| Re-Test Date          | 2028-12-23 |

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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