

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

|                          |   |
|--------------------------|---|
| <b>Catalogue Number</b>  | 39167   |
| <b>Lot Number</b>        | 003220-1014129  |
| <b>Product</b>           | <b>(1S)-(-)-<math>\alpha</math>-Pinene</b><br>(1S,5S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene |
| <b>CAS Number</b>        | 7785-26-4   |
| <b>Molecular Formula</b> | C <sub>10</sub> H <sub>16</sub>   |
| <b>Molecular Weight</b>  | 136.24  |

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|-------------------------|--|
| <b>Appearance</b>       | Colorless liquid   |
| <b>Odor</b>             | Fresh piney odor   |
| <b>Specific Gravity</b> | 0.857 at 25 °C   |
| <b>Refractive Index</b> | n <sub>20</sub> /D 1.466   |
| <b>Optical Rotation</b> | [ $\alpha$ ] <sub>D</sub> <sup>25</sup> = -24.5 °                                    |
| <b>Purity by GC</b>     | 97.6%  |
| <b>Storage</b>          | Store at RT  |
| <b>Remarks</b>          | See material safety data sheet for additional information<br>For laboratory use only |

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**