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Certificate of Analysis

Catalogue Number 16466
Lot Number 000127-143966
Product **Z-O-tert-butyl-D-allo-threonine
cyclohexylammonium salt**
Z-D-allo-Thr(tBu)-OH•DCHA

CAS Number 100157-55-9
Molecular Formula C₁₆H₂₃NO₅•C₁₂H₂₃N

Molecular Weight 490.68

Appearance White powder
Solubility Clear, colorless solution (50 mg/mL in Methanol)
Melting Point 182 °C
**Elemental Analysis
(Theory)** C = 68.5%; H = 9.5%; N = 5.7%
**Elemental Analysis
(Found)** C = 68.3%; H = 9.6%; N = 5.6%
**Water Content (Karl
Fisher)** 0.1%
TLC System Chloroform/Methanol/Acetic acid (90:8:2)
Toluene/Dioxane/Acetic acid (95:25:4)
Chloroform/Methanol/Toluene/H₂O (8:8:8:1)
Plate: Silicagel 60 F₂₅₄
Detected by: UV, ninhydrin, chlorine-tolidine
Optical Rotation [α]_D²⁴ = -12.6° (C=1% in methanol)
Related Substances 0.1% L-Threonin
< 0.1% D-Threonin
< 0.1% L-allo-Threonin
Assay 99.6% (Elemental analysis: Cth 68.54%, Cfd 68.27%)
Purity by GC > 99.7% (D-enantiomer)
Purity by TLC > 99%
Storage Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

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



Bala Kumar
Quality Control Manager