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Certificate of Analysis

Catalogue Number	05646
Lot Number	000127-1057883
Product	D-α-Hydroxyisovaleric acid D-2-Hydroxy-3-methylbutyric acid
CAS Number	17407-56-6
Molecular Formula	C ₅ H ₁₀ O ₃
Molecular Weight	118.13

Appearance	Slightly yellow crystals
Solubility	Clear, colorless solution (50 mg/ml in Methanol)
Melting Point	62 °C
Elemental Analysis (Found)	C = 50.4%, H = 8.6% (Calc. x 0.05 H ₂ O)
Water Content (Karl Fisher)	0.8%
TLC System	Chloroform/Methanol/Acetic Acid/H ₂ O (70:42:0.5:10) Ethylacetate/Pyridine/Acetic Acid/H ₂ O (60:10:3:4) Chloroform/Methanol/Acetic Acid/H ₂ O (45:13:1:2) Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine, ammonium molybdate
Optical Rotation	[α] _D ²⁴ = - 16.6 ° (C=2% in Chloroform)
Purity by TLC	> 99%
Storage	Store at ≤ -4 °C
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