

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	33063
Product	D-Panthenol
Lot Number	002650-18032001 (R)-(+)-2,4-Dihydroxy-N-(3-hydroxypropyl)-3,3-dimethylbutyramide
CAS Number	81-13-0
Molecular Formula	C ₉ H ₁₉ NO ₄
Molecular Weight	205.25

Appearance	Clear, colorless viscous liquid
Odor	Characteristic
Refractive Index	1.500
Heavy Metals	< 10 ppm
Water Content (Karl Fisher)	0.3%
Optical Rotation	$[\alpha]_{\text{D}}^{20} = + 30.8^{\circ}$
Infrared Spectrum	Conforms to structure
Residual Solvents	Meets the requirements
Related Substances	Limit of aminopropanol : 0.6%
Residue On Ignition	< 0.1%
Assay by titration	99.2% (on dry basis)
Grade	USP
Storage	Store at RT

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Lot Number: 002650-18032001

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