Chem-Impex International, Inc.

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Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 11062

Lot Number 000127-1041878

Product Cyclo(L-Ser-L-Ser)

Cyclo(-Ser-Ser)

CAS Number 23409-30-5 Molecular Formula C₆H₁₀N₂O₄

Molecular Weight 174.16

Appearance White powder

Solubility Clear, colorless solution (10 mg/mL in 80% Acetic acid)

Melting Point 243 °C

Elemental Analysis

(Theory)

C = 41.4%; H = 5.8%; N = 16.1%

Elemental Analysis

(Found)

C = 41.5%; H = 5.6%; N = 16.2%

Water Content (Karl

Fisher)

0.1%

TLC System Chloroform/Methanol/Acetic acid 32% (5:3:1)

n-Butanol/Acetic acid/H₂O (4:2:2)

Ethylacetate/Pyridine/Acetic acid/H₂O (6:4:1:3)

Plate: silicagel 60 F₂₅₄

Detected by: UV, ninhydrin, chlorine-tolidine

Optical Rotation [a]_D²⁴ = +38.4° (C=0.1% in Acetic acid)

Assay 100.4% (Elemental analysis: Nth 16.08%, Nfd 16.15%)

Purity by TLC > 99%

Storage Store at \leq -4 °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