

N-tetradecanoyl-L-homoserine lactone
(S)-N-(2-oxotetrahydrofuran-3-yl)tetradecanamide

857523P-10mg

Page 1 of 1

Molecular weight 311.46
Chemical formula C₁₈H₃₃NO₃
Physical State Powder
Storage -20°C
Expiration Date One year from date of receipt
M Lot Number 6471PIC010
Avanti Lot Number 857523P-10MG-C-010

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	Powder: White solid which contains no foreign matter	Pass
TLC (100% Ethyl Acetate)	>99% Purity Ninhydrin spray: negative Iodine: one major spot Phosphorus: negative Charring: negative Water dip: one major spot	All Pass
Proton NMR	NMR spectrum consistent with structure	Consistent with structure
Mass Spectroscopy	[M+H] ⁺ = 312.46 ± 1 amu [M+NH ₄] ⁺ = 329.46 ± 1 amu	[M+H] ⁺ = 312.7 amu [M+NH ₄] ⁺ = 329.8 amu

Approved By: *Andriana Thomas*

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