

N-tetradecanoyl-D-homoserine lactone
(R)-N-(2-oxotetrahydrofuran-3-yl)tetradecanamide
857524P-10mg

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Molecular Weight 311.46
Chemical Formula C₁₈H₃₃NO₃
Physical State Powder
Storage -20°C
Expiration Date One year from date of receipt
M Lot Number 6472PIA010
Avanti Lot Number 857524P-10MG-A-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 reference structure	Consistent with Structure
Mass Spectroscopy	[M+H] ⁺ = 312.46 ± 1 amu [M+NH ₄] ⁺ = 329.46 ± 1 amu	[M+H] ⁺ = 312.2 amu [M+NH ₄] ⁺ = 329.3 amu

Approved by:

