

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

**857523P-10mg**

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**Molecular weight** 311.46  
**Chemical formula** C<sub>18</sub>H<sub>33</sub>NO<sub>3</sub>  
**Physical State** Powder  
**Storage** -20°C  
**Expiration Date** One year from date of receipt  
**M Lot Number** 6471PIB010  
**Avanti Lot Number** 857523P-10MG-B-010

ANALYSIS	SPECIFICATION	RESULTS
Physical Examination	<b>Powder:</b> 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] <sup>+</sup> = 312.46 ± 1 amu [M+NH <sub>4</sub> ] <sup>+</sup> = 329.46 ± 1 amu	[M+H] <sup>+</sup> = 312.7 amu [M+NH <sub>4</sub> ] <sup>+</sup> = 329.8 amu



Approved By:

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