

**N-octanoyl-L-homoserine lactone**  
**(S)-N-(2-oxotetrahydrofuran-3-yl)octanamide**  
**857521P-10mg**

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**Molecular Weight** 227.3  
**Chemical Formula** C<sub>12</sub>H<sub>21</sub>NO<sub>3</sub>  
**Physical State** Powder  
**Storage** -20°C  
**Expiration Date** One year from date of receipt  
**M Lot Number** 6469PIA010  
**Avanti Lot Number** 857521P-10MG-A-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> = 228.3 ± 1 amu [M+NH <sub>4</sub> ] <sup>+</sup> = 245.3 ± 1 amu	[M+H] <sup>+</sup> = 228.2 amu [M+NH <sub>4</sub> ] <sup>+</sup> = 245.3 amu

Approved by:

