













THE DOZN™ SCALE

Based on the 12 Principles of Green Chemistry*, DOZN helps researchers, scientists, and manufacturers increase performance and efficiency while reducing human and environmental impact.

*Paul T. Anastas and John C. Warner, 1991.

MILLIPORE
SIGMA

L-Prolinamide, N-[2-[2-(carboxymethoxy)ethoxy]acetyl]-3-methyl-L-valyl-4-hydroxy-N-[[4-(4-methyl-5-thiazolyl)phenyl]methyl]-, (4R)- (936510)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	 Atom Economy	<div><div></div></div> 21%	Increased yield with reduced raw material usage
	 Waste Prevention	No change	
	 Reduce Derivatives	NA	
	 Renewable Feedstocks Use	<div><div></div></div> 27%	Reduced auxiliary chemicals and solvents
	 Real-Time Pollution Prevention	NA	
	 Catalyst	<div><div></div></div> 51%	Used catalyst to improve yield
Human & Environmental Hazards Reduction	 Energy Efficiency Design	<div><div></div></div> 81%	Reduced chemical processing
	 Less Hazardous Chemical Synthesis	<div><div></div></div> 15%	Reduced hazardous chemicals
	 Safer Chemical Design	NA	
	 Safer Solvents and Auxiliaries	<div><div></div></div> 72%	Reduced solvent usage
	 Design for Degradation	NA	
	 Inherently Safer Chemical for Accident Prevention	<div><div></div></div> 9%	Reduced reactivity risk

TOTAL PERCENT IMPROVEMENT

26%

AGGREGATE SCORE

0 = Most Desirable

Re-engineered Score



Previous Score

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