

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.



4-Acetamido-2,2,6,6-tetramethylpiperidine 1-oxyl (00375)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	52%	Decreased solvent usages while maintaining same yield
	Waste Prevention	90%	Reduced waste by decreasing solvent usage by 78%
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	52%	Replaced organic auxiliaries with aqueous auxiliaries
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
	Energy Efficiency Design	N/A	
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	56%	Eliminated flammability hazards
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	100%	Eliminated use of organic solvents
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	65%	Eliminated flammability and reactivity hazards

TOTAL PERCENT IMPROVEMENT

11%

AGGREGATE SCORE

0= Most Desirable



Previous Score ←

Re-engineered Score ←

9 8

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