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-Hydroxy-4-methyl-2-oxoglutaric acid dipotassium salt (SMB00908)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	39%	Increased yield. Used less raw materials
	Waste Prevention	No Change	
	Reduce Derivatives	NA	
	Renewable Feedstocks Use	41%	Decreased quantity of raw materials
	Real-Time Pollution Prevention	NA	
	Catalyst	NA	
	Energy Efficiency Design	80%	Reduced chemical processing
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	3%	Reduced hazardous reaction conditions
	Safer Chemical Design	NA	
	Safer Solvents and Auxiliaries	59%	Reduced solvent usage
	Design for Degradation	44%	Reduced use of substances that degrades to environmentally hazardous materials
	Inherently Safer Chemical for Accident Prevention	24%	Reduced reactivity hazard

TOTAL PERCENT IMPROVEMENT 24%

AGGREGATE SCORE

0 = Most Desirable