




















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

Diiodosilane (339873)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	 Atom Economy	 56%	Increased yield. Used less raw materials
	 Waste Prevention	 100%	Eliminated solvent usage
	 Reduce Derivatives	No Change	
	 Renewable Feedstocks Use	 56%	Decreased amount of raw materials
	 Real-Time Pollution Prevention	N/A	
	 Catalyst	No Change	
	 Energy Efficiency Design	N/A	
Human & Environmental Hazards Reduction	 Less Hazardous Chemical Synthesis	 46%	Reduced hazardous reaction conditions
	 Safer Chemical Design	 40%	Minimizing the toxicity
	 Safer Solvents and Auxiliaries	 100%	Eliminated solvent usage
	 Design for Degradation	N/A	
	 Inherently Safer Chemical for Accident Prevention	 26%	Reduced flammability and reactivity hazard

TOTAL PERCENT IMPROVEMENT

67%

AGGREGATE SCORE



0 = Most Desirable

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