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.*

MilliporeSigma

Sodium triacetoxyborohydride (316393)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	67%	Increased yield. Used less raw materials
	Waste Prevention	99%	Used less quantity of raw materials
	Reduce Derivatives	No Change	
	Renewable Feedstocks Use	78%	Decreased quantity of raw materials
	Real-Time Pollution Prevention	No Change	
	Catalyst	No Change	
	Energy Efficiency Design	89%	Reduced chemical processing
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	67%	Reduced hazardous reaction conditions
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	74%	Reduced solvent usage
	Design for Degradation	24%	Reduced use of substances that degrades to environmentally hazardous materials
	Inherently Safer Chemical for Accident Prevention	77%	Reduced reactivity hazard

TOTAL PERCENT IMPROVEMENT 80%

AGGREGATE SCORE

0 = Most Desirable