

# 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.



## Sodium triacetoxyborohydride (316393)

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

**TOTAL PERCENT IMPROVEMENT**

**80%**

**AGGREGATE SCORE**

0 = Most Desirable



Re-engineered Score

Previous Score

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