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.*

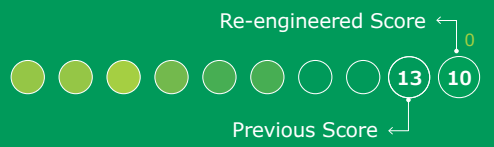
D-Glucose-6,6-d_2

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	NA	
	Waste Prevention	32%	Reduced quantity of raw materials
	Reduce Derivatives	NA	
	Renewable Feedstocks Use	11%	Reduced auxiliary chemicals and solvent
	Real-Time Pollution Prevention	No Change	
	Catalyst	No Change	
	Energy Efficiency Design	14%	Reduced chemical processing
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	21%	Reduced quantities of reactants
	Safer Chemical Design	8%	Lower toxicity with fewer raw materials
	Safer Solvents and Auxiliaries	22%	Reduced quantity of organic solvent
	Design for Degradation	No Change	
	Inherently Safer Chemical for Accident Prevention	21%	Minimized reactivity risk

TOTAL PERCENT IMPROVEMENT 23%

AGGREGATE SCORE

0 = Most Desirable



The Life Science business of Merck operates as MilliporeSigma in the U.S. and Canada.