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.*

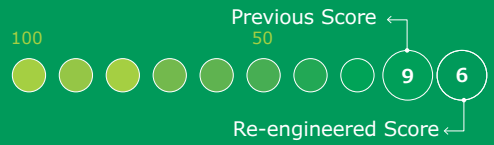
Trans-4,5-Dihydroxy-1,2-dithiane (D3511)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	56%	Increased yield. Used less raw materials
	Waste Prevention	6%	Reduced the generation of hazardous waste
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	56%	Decreased amount of raw materials
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
	Energy Efficiency Design	N/A	
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	56%	Minimized the use of toxic chemicals
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	N/A	
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	52%	Minimized the explosion and flammability hazard

TOTAL PERCENT IMPROVEMENT 33%

AGGREGATE SCORE

0= Most Desirable



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