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.*

MERCK

1,3,5-Tris(4-Iodophenyl)benzene (656453)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	97%	Increased yield. Used less raw materials.
	Waste Prevention	96%	Decreased solvent usage by 85%
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	97%	Reduced quantity of chemical usage
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
	Energy Efficiency Design	100%	Reduced chemical processing
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	96%	Eliminated corrosive and toxic hazards
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	83%	Replaced priority pollutant with safer solvent
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	99%	Reduced use of corrosive and toxic chemicals

TOTAL PERCENT IMPROVEMENT 84%

AGGREGATE SCORE

0= Most Desirable