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.*

tert-Butyl-d_9 acetate (901455)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	31%	Reduced amount of raw materials
	Waste Prevention	69%	Reduced waste with less raw materials
	Reduce Derivatives	NA	
	Renewable Feedstocks Use	31%	Reduced auxiliary chemicals and solvent
	Real-Time Pollution Prevention	NA	
	Catalyst	NA	
	Energy Efficiency Design	77%	Reduced chemical processing
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	31%	Eliminated hazardous solvents
	Safer Chemical Design	2%	Reduced toxicity
	Safer Solvents and Auxiliaries	42%	Eliminated organic solvent usage
	Design for Degradation	11%	Reduced use of substances that degrade into hazardous materials
	Inherently Safer Chemical for Accident Prevention	43%	Minimized reactivity risk

TOTAL PERCENT IMPROVEMENT 50%

AGGREGATE SCORE

0 = Most Desirable

Re-engineered Score 0

Previous Score 2 1