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.*

APhos Pd G3 (764183)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	6%	Increased yield
	Waste Prevention	83%	Used less raw materials
	Reduce Derivatives	No Change	
	Renewable Feedstocks Use	6%	Decreased amount of raw materials
	Real-Time Pollution Prevention	No Change	
	Catalyst	No Change	
	Energy Efficiency Design	N/A	
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	6%	Reduced hazardous reaction conditions
	Safer Chemical Design	No Change	Not required
	Safer Solvents and Auxiliaries	5%	Reduced solvent usage
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	6%	Reduced flammability and reactivity hazard

TOTAL PERCENT IMPROVEMENT 40%

AGGREGATE SCORE

0 = Most Desirable

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