

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

TOTAL PERCENT IMPROVEMENT

40%

AGGREGATE SCORE

0 = Most Desirable

Re-engineered Score 0

Previous Score 5

3

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

© 2024 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved. Merck, the vibrant M and DOZN are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources. 2024 - 60283