

# 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.

## RuPhos (PMC2003)

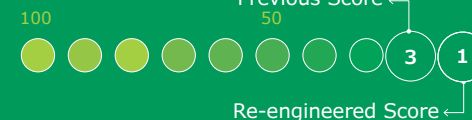
	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	60%	Increased yield. Used less raw materials
	Waste Prevention	55%	Decreased solvent usage by 60%
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	60%	Reduced quantity of chemical usage
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
Human & Environmental Hazards Reduction	Energy Efficiency Design	58%	Reduced chemical processing
	Less Hazardous Chemical Synthesis	32%	Reduced toxic hazards
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	N/A	
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	31%	Reduced flammability and toxic chemicals

**TOTAL PERCENT IMPROVEMENT**

**67%**

**AGGREGATE SCORE**

0= Most Desirable



The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

© 2020 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. 2020 - 32017