

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.

Dimethyl-2,6-dibromoheptanedioate (419214)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	26%	Increased yield. Used less raw materials.
	Waste Prevention	60%	Decreased solvent usage by 81%
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	28%	Decreased amount of raw materials
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
Human & Environmental Hazards Reduction	Energy Efficiency Design	80%	Reduced chemical processing
	Less Hazardous Chemical Synthesis	N/A	
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	100%	Replaced solvent usage
	Design for Degradation	4%	Reduced use of substance that degrades to environmentally hazardous materials
	Inherently Safer Chemical for Accident Prevention	N/A	

TOTAL PERCENT IMPROVEMENT

50%

AGGREGATE SCORE

0= Most Desirable



Previous Score ←

Re-engineered Score ←

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

© 2022 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. 2022 - 44504