

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.

N-tert-Butylmaleimide (386421)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	33%	Increased yield. Used less raw materials
	Waste Prevention	34%	Reduced waste
	Reduce Derivatives	NA	
	Renewable Feedstocks Use	33%	Reduced auxiliary chemicals
	Real-Time Pollution Prevention	NA	
	Catalyst	NA	
Human & Environmental Hazards Reduction	Energy Efficiency Design	34%	Reduced chemical processing
	Less Hazardous Chemical Synthesis	24%	Reduced hazardous reaction conditions
	Safer Chemical Design	NA	
	Safer Solvents and Auxiliaries	30%	Reduced solvent usage
	Design for Degradation	6%	Reduced use of substances that degrades to environmentally hazardous materials
	Inherently Safer Chemical for Accident Prevention	26%	Reduced reactivity hazard

TOTAL PERCENT IMPROVEMENT

30%

AGGREGATE SCORE

0 = Most Desirable

Re-engineered Score



Previous Score

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

© 2025 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. 2025 - 63190