

# 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.

## tert-Butanol-d<sub>10</sub> (175889)

	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	<div><div></div></div> 71%	Increased yield with reduced raw material usage
	Waste Prevention	<div><div></div></div> 25%	Reduced waste with less raw materials
	Reduce Derivatives	NA	
	Renewable Feedstocks Use	<div><div></div></div> 70%	Reduced amount of auxiliary chemicals
	Real-Time Pollution Prevention	NA	
	Catalyst	NA	
Human & Environmental Hazards Reduction	Energy Efficiency Design	<div><div></div></div> 58%	Reduced chemical processing
	Less Hazardous Chemical Synthesis	<div><div></div></div> 70%	Reduced amount of hazardous chemicals
	Safer Chemical Design	NA	
	Safer Solvents and Auxiliaries	NA	
	Design for Degradation	NA	
	Inherently Safer Chemical for Accident Prevention	<div><div></div></div> 80%	Minimized reactivity risk

TOTAL PERCENT IMPROVEMENT

65%

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.

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