

# 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.

## (S)-(-)-3-Chloro-1-phenyl-1-propanol (324612)

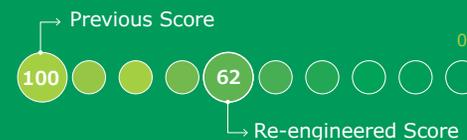
	12 Principles of Green Chemistry	Percentage of Improvement	Results
Resource Used	Atom Economy	64%	Increased yield. Used less raw materials.
	Waste Prevention	24%	Decreased solvent usage by 81%
	Reduce Derivatives	N/A	
	Renewable Feedstocks Use	64%	Reduced quantity of chemical usage
	Real-Time Pollution Prevention	N/A	
	Catalyst	N/A	
	Energy Efficiency Design	95%	Eliminated the need for extreme reaction conditions
Human & Environmental Hazards Reduction	Less Hazardous Chemical Synthesis	63%	Reduced hazardous reaction conditions
	Safer Chemical Design	N/A	
	Safer Solvents and Auxiliaries	N/A	
	Design for Degradation	N/A	
	Inherently Safer Chemical for Accident Prevention	51%	Reduced flammability and reactivity hazard

**TOTAL PERCENT IMPROVEMENT**

**38%**

**AGGREGATE SCORE**

0= Most Desirable



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