Green Chemistry Simulation Report

Test PDF Generation

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Product Information

Test Product

Molecular Weight: 180.0 g/mol

Actual Mass: 10.0 g

Carbon Atoms: None

Key Green Chemistry Metrics

ATOM ECONOMY	PMI	E-FACTOR	RME	CARBON EFF.
85.5%	2.5	1.5	75.0%	80.0%

STOICH. FACTOR	WATER INTENSITY	ENERGY	SOLVENT INT.	CARBON FOOTPRINT
3.5	10.0	2.0	N/A	1000.0

Metrics Interpretation Guide:

- **Atom Economy (AE):** ≥80% excellent, 60-80% good, <60% needs improvement
- **PMI:** <10 pharmaceutical, <5 fine chemicals, <1 ideal
- **E-Factor:** Lower is better; <1 pharmaceutical, <5 fine chemicals
- **RME:** ≥80% excellent, 60-80% good, <60% needs improvement
- **Carbon Efficiency (CE):** ≥80% excellent, 60-80% good, <60% needs improvement

Reactants

#	Name	MW (g/mol)	Mass (g)	C Atoms	Eq. Used
1	Reactant A	100.0	15.0	None	None

Solvents

#	Name	Mass (g)	Recovery
No solvents			

Mass Balance Breakdown

Reactant Mass	0 g
Catalyst Mass	0 g
Total Solvent Mass	0 g
Aqueous Washes	0 g
Auxiliaries (Drying)	0 g
Total Input Mass	**0 g**
Product Mass	**0 g**

AI-Powered Recommendations

- No suggestions available. Run simulation to generate insights.