

TAM Assistant Analysis Report

**Kinetics**

**Model**

Autocatalytic  
 $d[C]/dt = k([A]_o - (a/c)([C]-[C]_o)) [C]$

**Model Input Parameters**

a/c: 1

**Signal**

**Input**

Results file path: *S:\TAM-work\Diazo\Article-Diazo-Calorim-TAMIII\4 NO2C6H4N2+ TsO - 80 Nitrogen 2-12-16.rslt*  
Measurement signal: Data series.Signal  
Mass: 10mg  
[A]o: 3.1123mmol/g

**Results**

Po: 2.7446μW  
k: 0.05385 g\*s<sup>-1</sup>\*mol<sup>-1</sup> ± 2.4e-4 g\*s<sup>-1</sup>\*mol<sup>-1</sup>  
dH: 232.4 kJ/mol ± 750 J/mol  
Co: 7.05e-6 ± 2.0e-7  
Standard deviation: 24.648μW  
NDF: 4659

Measured Calculated

