

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 - 75 Nitrogen 12-19-15.rslt*

Measurement signal: Data series.Signal

Mass: 10mg

[A]o: 3.1123mmol/g

**Results**

Po: 1.9569μW

k:  $0.02894\text{ g}\cdot\text{s}^{-1}\cdot\text{mol}^{-1} \pm 1.2\text{e-}4\text{ g}\cdot\text{s}^{-1}\cdot\text{mol}^{-1}$

dH: 252.6 kJ/mol ± 790 J/mol

Co:  $8.60\text{e-}6 \pm 2.3\text{e-}7$

Standard deviation: 11.844μW

NDF: 5111

Measured      Calculated

