

# 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: *C:\Users\S\Documents\Diazo\Ampoule (4-20-16) NO2 Ph-N2-BF4 V0.rslt*  
Measurement signal: Data series.Signal  
Mass: 10mg  
[A]<sub>o</sub>: 4.2208mmol/g

#### Results

P<sub>o</sub>: 168.07μW  
k: 0.08023 g\*s<sup>-1</sup>\*mol<sup>-1</sup> ± 3.3e-4 g\*s<sup>-1</sup>\*mol<sup>-1</sup>  
dH: 139.3 kJ/mol ± 270 J/mol  
C<sub>o</sub>: 3.56e-4 ± 3.7e-6  
Standard deviation: 16.759μW  
NDF: 3911

— Measured — Calculated

