

## Pyrazole Synthesis under Microwave Irradiation and Solvent-free Conditions

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Data obtained microwave (MW) equipment

### Method Parameters

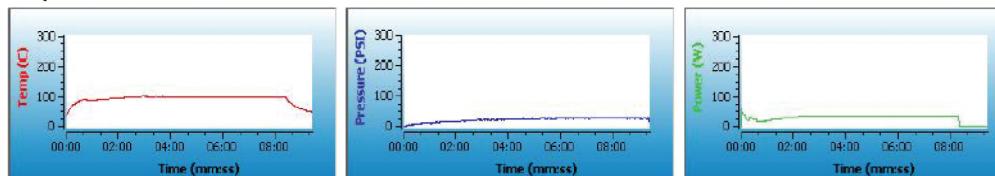
Name: m3o 087 1

Prestirring(mm:ss): 00:00

Type: Dynamic

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	100	06:00	250	200	Yes	High

### Graphs



### Method Summary

Reaction started: 24/10/2008 15:16:08  
Temperature setpoint reached: 24/10/2008 15:18:40  
Reaction cooling started: 24/10/2008 15:24:41  
Cooling/Reaction ended: 24/10/2008 15:25:46

Reaction Completed Successfully!

Maximum temperature: 101 C  
Maximum pressure: 29 PSI  
Time to obtain setpoint: 02:32 mm:ss  
Time at setpoint: 06:01 mm:ss  
Time cooling: 01:05 mm:ss

Figure S1. Reaction condition (MW parameters to obtainment of product 6a).

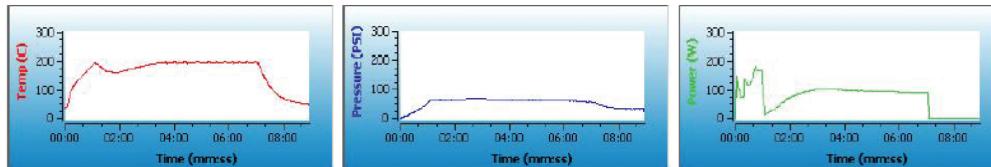
### Method Parameters

Name: m3o 092 2

Type: Dynamic

		Prestirring(mm:ss):		00:00		
Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	200	06:00	250	200	No	High

### Graphs



### Method Summary

Reaction started: 31/10/2008 14:33:48

Temperature setpoint reached: 31/10/2008 14:35:02

Reaction cooling started: 31/10/2008 14:41:03

Cooling/Reaction ended: 31/10/2008 14:42:54

Reaction Completed Successfully!

Maximum temperature: 200 C  
 Maximum pressure: 70 PSI  
 Time to obtain setpoint: 01:14 mm:ss  
 Time at setpoint: 06:01 mm:ss  
 Time cooling: 01:51 mm:ss

**Figure S2.** Reaction condition (MW parameters to obtainment of product **7a** and **8a**).

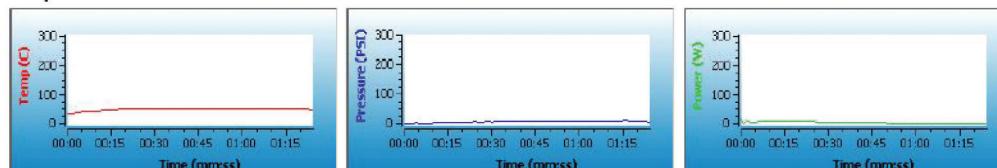
### Method Parameters

Name: m3o 078 2

Type: Dynamic

		Prestirring(mm:ss):		00:00		
Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	50	01:00	250	200	Yes	High

### Graphs



### Method Summary

Reaction started: 17/10/2008 14:46:16

Temperature setpoint reached: 17/10/2008 14:46:44

Reaction cooling started: 17/10/2008 14:47:44

Cooling/Reaction ended: 17/10/2008 14:47:52

Reaction Completed Successfully!

Maximum temperature: 53 C  
 Maximum pressure: 11 PSI  
 Time to obtain setpoint: 00:28 mm:ss  
 Time at setpoint: 01:00 mm:ss  
 Time cooling: 00:08 mm:ss

**Figure S3.** Reaction condition (MW parameters to obtainment of product **6b**).

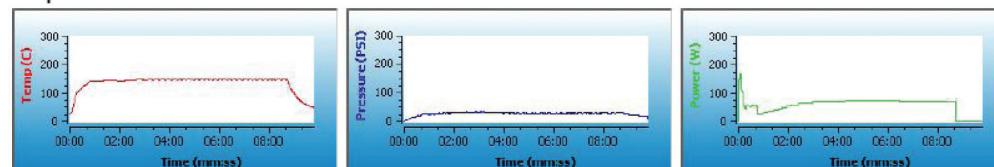
**Method Parameters**

Name: m3a 175 4

Type: Dynamic

Prestirring(mm:ss): 00:00

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	150	06:00	250	200	No	High

**Graphs****Method Summary**

Reaction started: 30/04/2009 09:17:04

Temperature setpoint reached: 30/04/2009 09:19:58

Reaction cooling started: 30/04/2009 09:25:59

Cooling/Reaction ended: 30/04/2009 09:27:02

Reaction Completed Successfully!

Maximum temperature: 151 C

Maximum pressure: 35 PSI

Time to obtain setpoint: 02:54 mm:ss

Time at setpoint: 06:01 mm:ss

Time cooling: 01:03 mm:ss

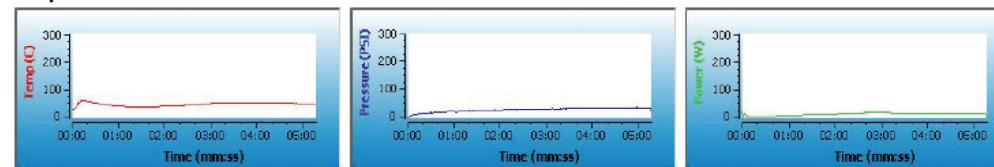
**Figure S4.** Reaction condition (MW parameters for obtainment of product **7b** and **8b**).**Method Parameters**

Name: m3n 099 2

Type: Dynamic

Prestirring(mm:ss): 00:00

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	50	06:00	250	200	Yes	High

**Graphs****Method Summary**

Reaction started: 07/11/2008 09:18:12

Temperature setpoint reached: 07/11/2008 09:18:31

Reaction cooling started: 07/11/2008 09:24:32

Cooling/Reaction ended: 07/11/2008 09:24:33

Reaction Completed Successfully!

Maximum temperature: 59 C

Maximum pressure: 34 PSI

Time to obtain setpoint: 00:19 mm:ss

Time at setpoint: 06:01 mm:ss

Time cooling: 00:01 mm:ss

**Figure S5.** Reaction condition (MW parameters for obtainment of product **6c**).

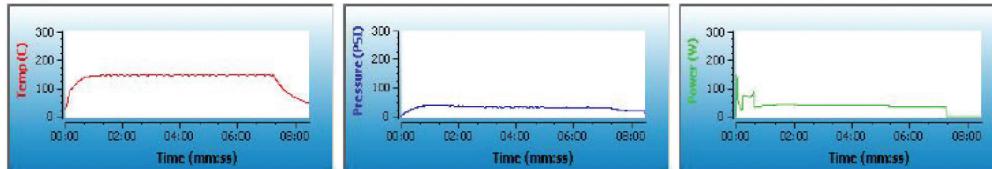
**Method Parameters**

Name: m3n 099 3

Prestirring(mm:ss): 00:00

Type: Dynamic

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	150	06:00	250	200	No	High

**Graphs****Method Summary**

Reaction started: 07/11/2008 09:25:42  
 Temperature setpoint reached: 07/11/2008 09:27:30  
 Reaction cooling started: 07/11/2008 09:33:30  
 Cooling/Reaction ended: 07/11/2008 09:34:45

Reaction Completed Successfully!

Maximum temperature: 151 C  
 Maximum pressure: 39 PSI  
 Time to obtain setpoint: 01:48 mm:ss  
 Time at setpoint: 06:00 mm:ss  
 Time cooling: 01:15 mm:ss

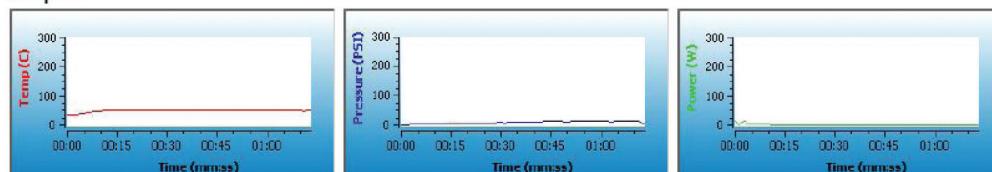
**Figure S6.** Reaction condition (MW parameters for obtainment of product **7c**).**Method Parameters**

Name: m3J 120 1

Prestirring(mm:ss): 00:00

Type: Dynamic

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	50	01:00	250	200	Yes	High

**Graphs****Method Summary**

Reaction started: 08/01/2009 09:40:17  
 Temperature setpoint reached: 08/01/2009 09:40:38  
 Reaction cooling started: 08/01/2009 09:41:39  
 Cooling/Reaction ended: 08/01/2009 09:41:42

Reaction Completed Successfully!

Maximum temperature: 52 C  
 Maximum pressure: 17 PSI  
 Time to obtain setpoint: 00:21 mm:ss  
 Time at setpoint: 01:01 mm:ss  
 Time cooling: 00:03 mm:ss

**Figure S7.** Reaction condition (MW parameters for obtainment of product **6b** in the presence of MeOH).

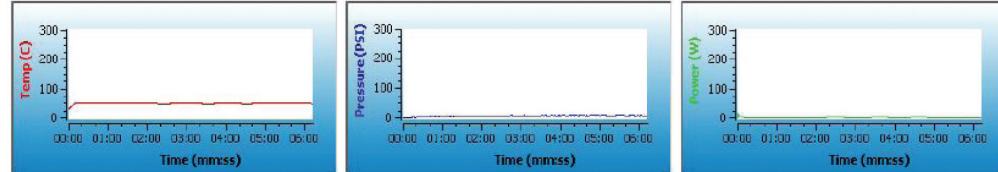
**Method Parameters**

Name: M3J 121 1

Prestirring(mm:ss): 00:00

Type: Dynamic

Stage	Temp(C)	Time(mm:ss)	Pressure(PSI)	Power(W)	PowerMAX	Stirring
1	50	06:00	250	200	Yes	High

**Graphs****Method Summary**

Reaction started: 08/01/2009 09:42:59

Temperature setpoint reached: 08/01/2009 09:43:20

Reaction cooling started: 08/01/2009 09:49:21

Cooling/Reaction ended: 08/01/2009 09:49:24

Reaction Completed Successfully!

Maximum temperature: 53 C

Maximum pressure: 13 PSI

Time to obtain setpoint: 00:21 mm:ss

Time at setpoint: 06:01 mm:ss

Time cooling: 00:03 mm:ss

**Figure S8.** Reaction condition (MW parameters for obtainment of product **6c** in the presence of MeOH).