

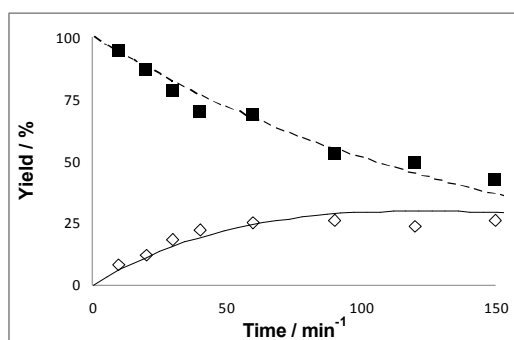
Data calculation.

Reaction rates were extracted from the curves presented below.

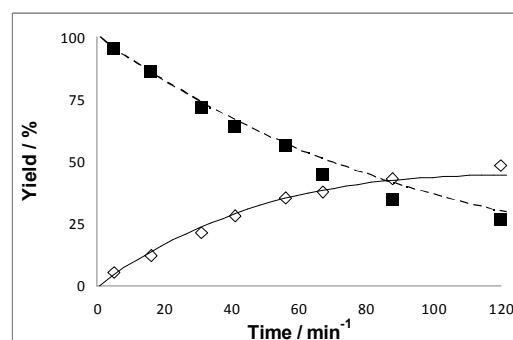
Standard error of reaction rates were calculated from the first points and equal at $\sigma \times n^{-1/2}$

Data for Figure 4

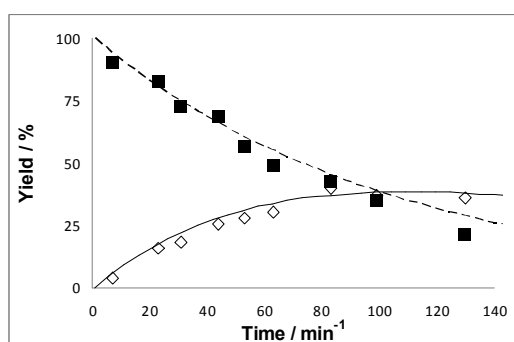
Water content mmol/ml	Hydrolysis		Degradation	
		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$
1	(1)	0,056	(7)	0,082
1,6	(2)	0,08	(8)	0,072
2,5	(3)	0,084	(9)	0,056
2,8	(4)	0,072	(10)	0,044
3,4			(11)	0,024
3,6	(5)	0,052	(12)	0,015
6	(6)	0,042	(13)	0,014



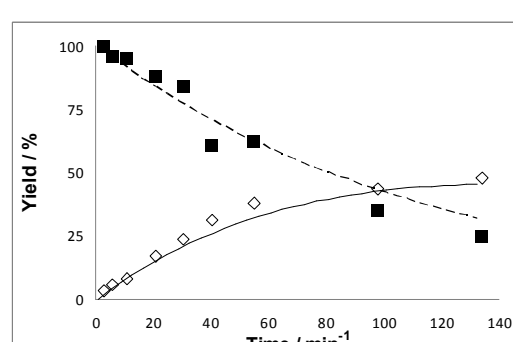
(1) $r^o = 0.056 \pm 4 \%$



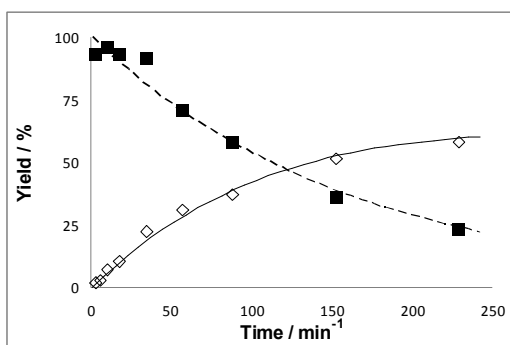
(3) $r^o = 0.084 \pm 3 \%$



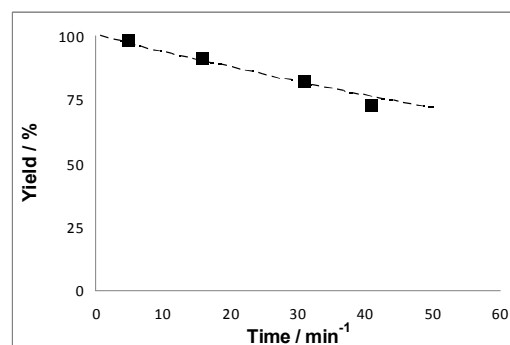
(2) $r^o = 0.08 \pm 4 \%$



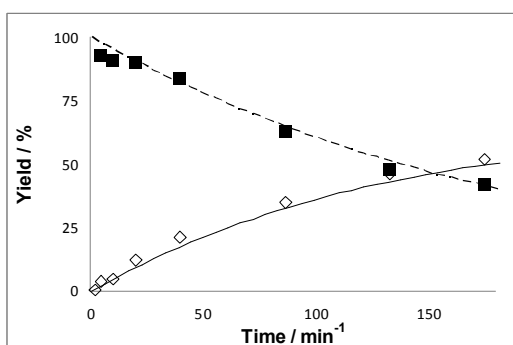
(4) $r^o = 0.072 \pm 8 \%$



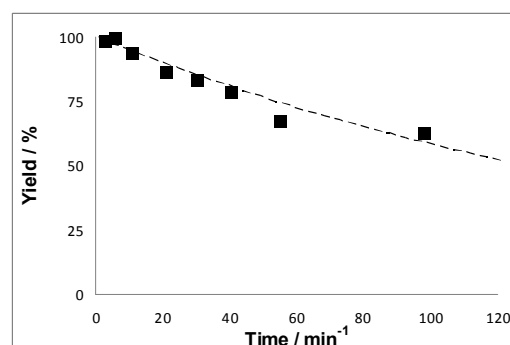
(5) $r^o = 0.052 \pm 6\%$



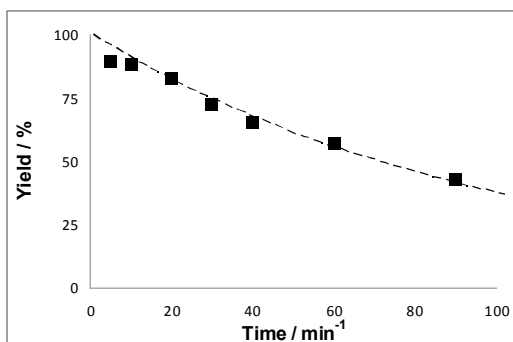
(9) $r^o = 0.056 \pm 12\%$



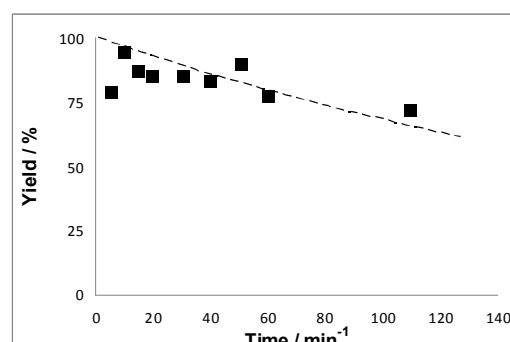
(6) $r^o = 0.042 \pm 8\%$



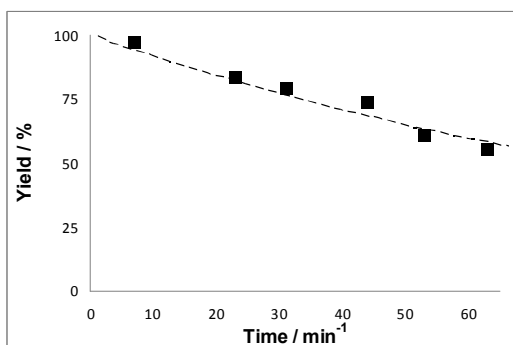
(10) $r^o = 0.044 \pm 6\%$



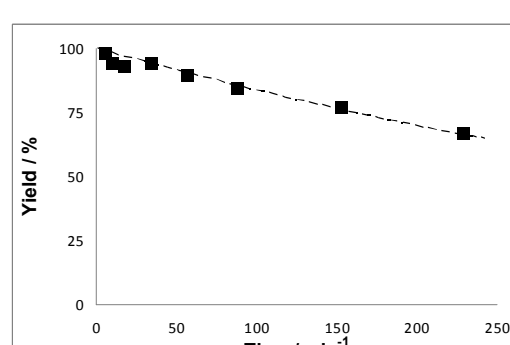
(7) $r^o = 0.082 \pm 5\%$



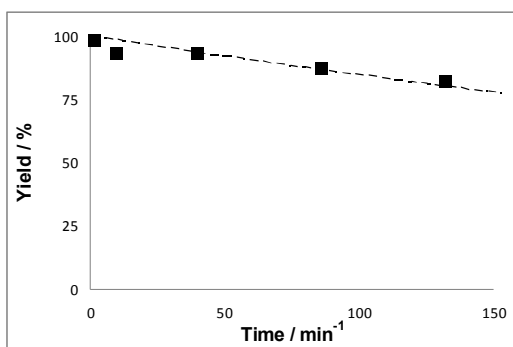
(11) $r^o = 0.024 \pm 11\%$



(8) $r^o = 0.072 \pm 4\%$



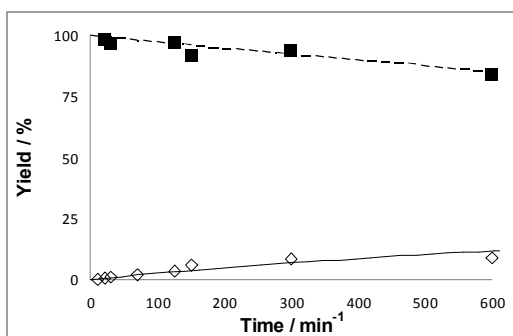
(12) $r^o = 0.015 \pm 6\%$



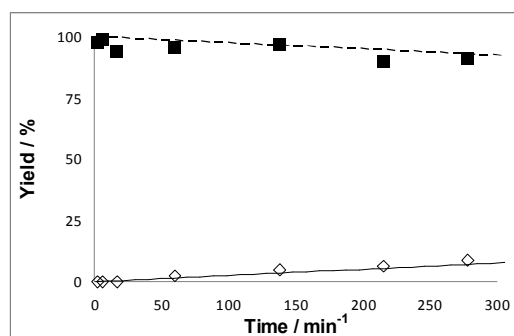
(13) $r^o = 0.014 \pm 4 \%$

Data for Figure 5

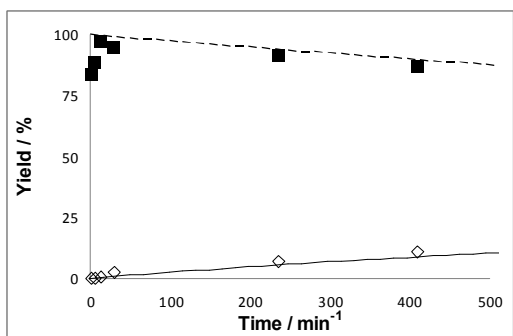
Acid catalyst	Hydrolysis		Degradation	
		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$
no acid	(1)	0,0022		
maleic acid	(2)	0,0022		
oxalic acid	(3)	0,0022	(8)	0,006
sulfamic acid	(4)	0,008	(9)	0,022
trifluoroacetic acid	(5)	0,10	(10)	0,032
methane sulfonic acid	(6)	0,44	(11)	0,12
sulfuric acid	(7)	0,52	(12)	0,12



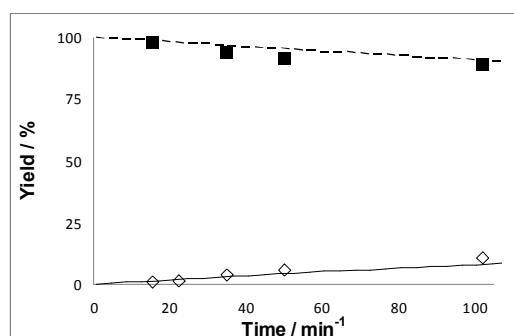
(1) $r^o = 0.002 \pm 6 \%$



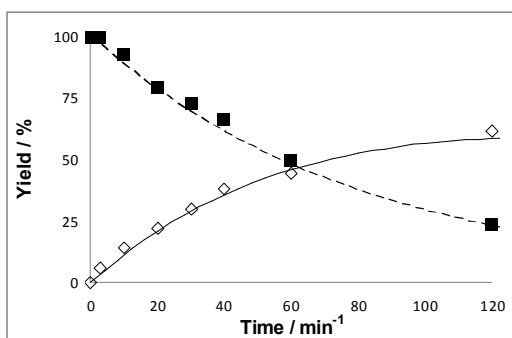
(3) $r^o = 0.002 \pm 8 \%$



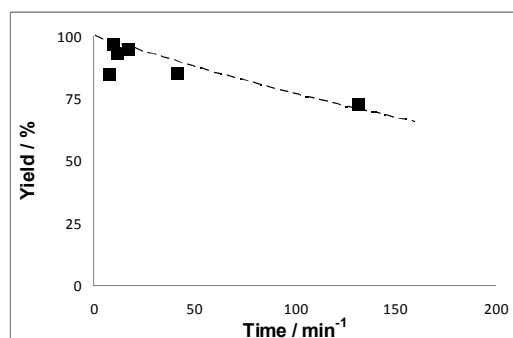
(2) $r^o = 0.002 \pm 13 \%$



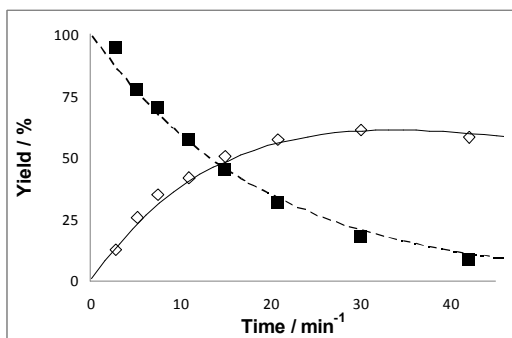
(4) $r^o = 0.008 \pm 8 \%$



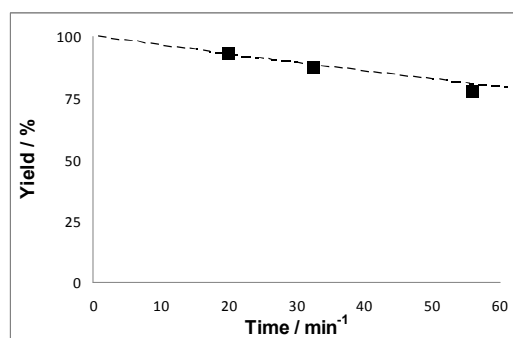
(5) $r^o = 0.10 \pm 4 \%$



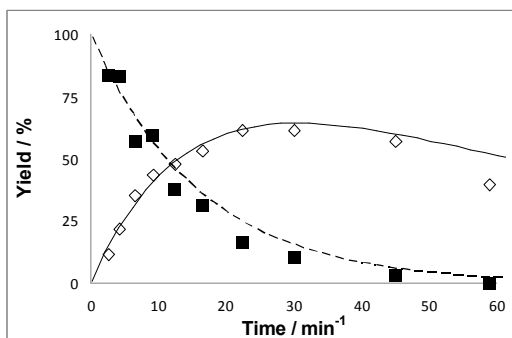
(9) $r^o = 0.022 \pm 16 \%$



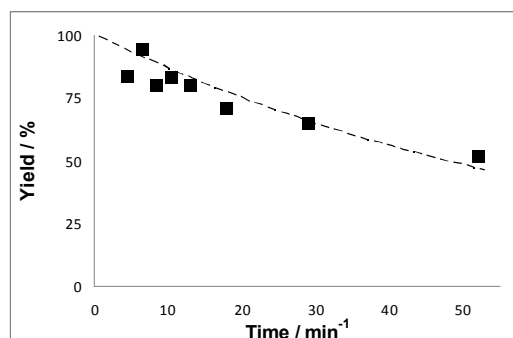
(6) $r^o = 0.44 \pm 5 \%$



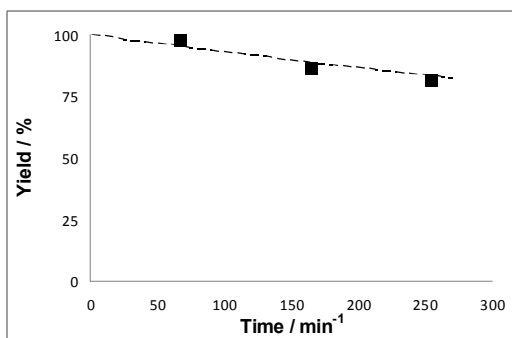
(10) $r^o = 0.032 \pm 8 \%$



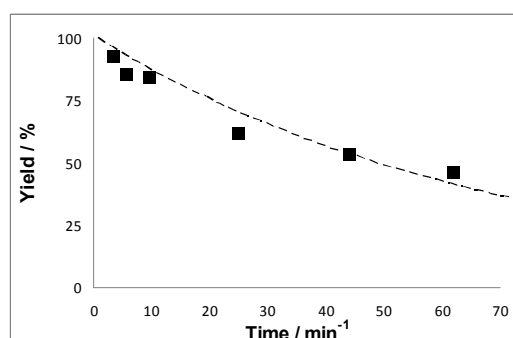
(7) $r^o = 0.52 \pm 6 \%$



(11) $r^o = 0.12 \pm 13 \%$



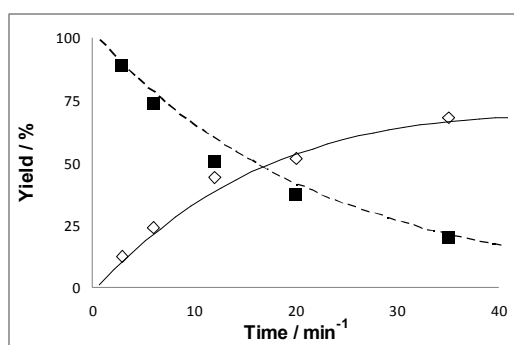
(8) $r^o = 0.006 \pm 12 \%$



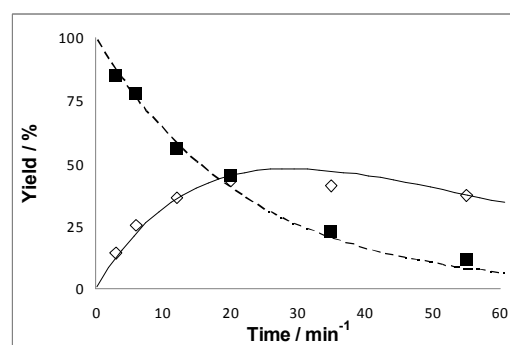
(12) $r^o = 0.12 \pm 12 \%$

Data for Figure 6

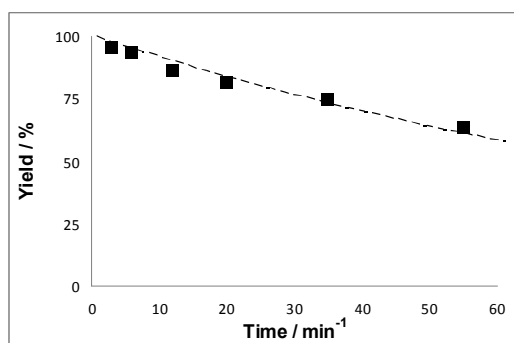
Carbohydrate mmol/ml	Hydrolysis		Degradation / dimerisation	
		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$
0,07	(1)	0,052		
0,148			(2)	0,015 / non detected
0,28			(3)	0,050 / non detected
0,52	(4)	0,38		
0,56			(5)	0,080 / 0,027
0,76	(6)	0,50		
1,04			(7)	0,24 / 0,075
1,26	(8)	0,88		
1,74			(9)	0,46 / 0,36
2,1	(10)	1,36		



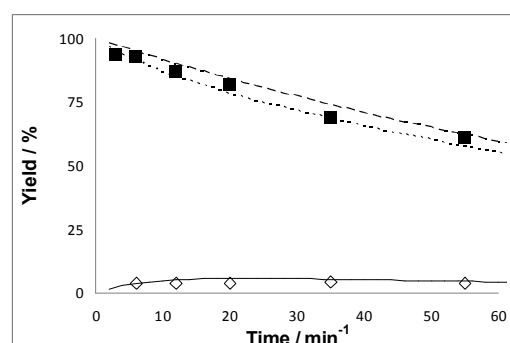
(1) $r^o = 0.052 \pm 5 \%$



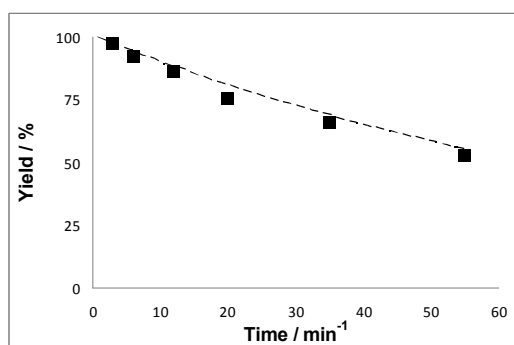
(4) $r^o = 0.38 \pm 3 \%$



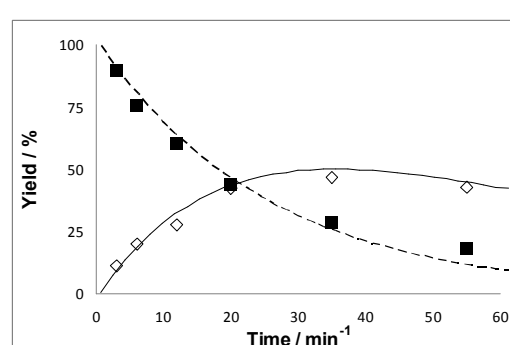
(2) $r^o = 0.015 \pm 8 \%$



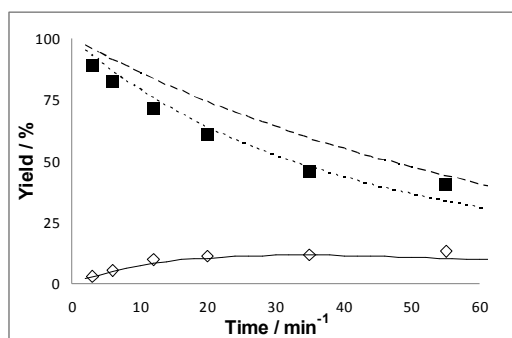
(5) $r^o = 0.08 \pm 12 \%$



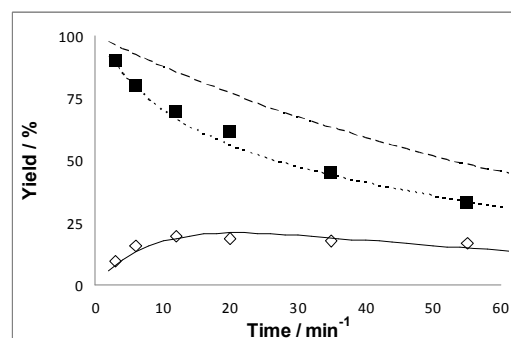
(3) $r^o = 0.050 \pm 7 \%$



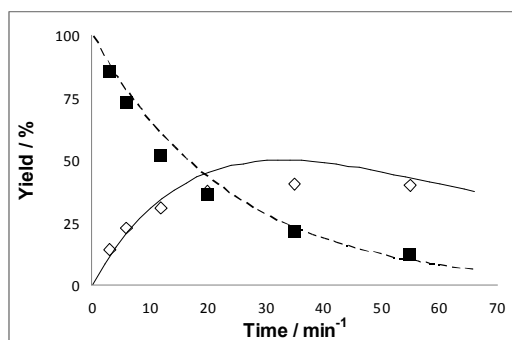
(6) $r^o = 0.50 \pm 5 \%$



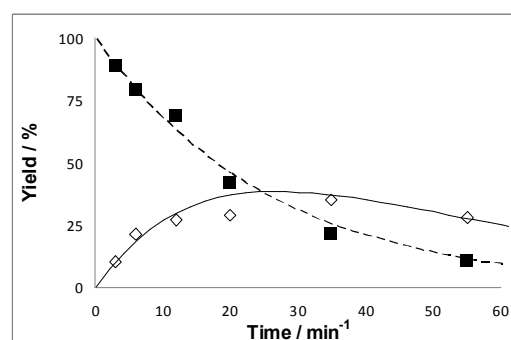
(7) $r^o = 0.24 \pm 8 \%$



(9) $r^o = 0.46 \pm 5 \%$



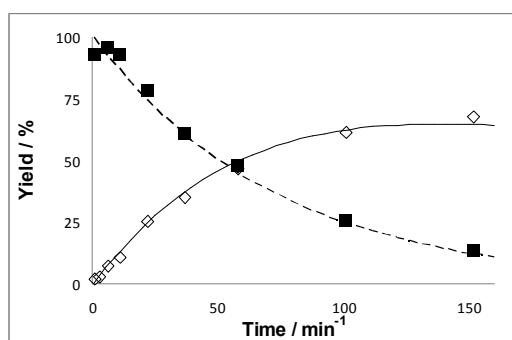
(8) $r^o = 0.88 \pm 5 \%$



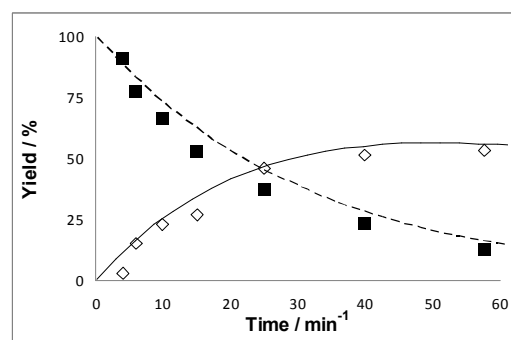
(10) $r^o = 1.36 \pm 4 \%$

Data for Figure 7

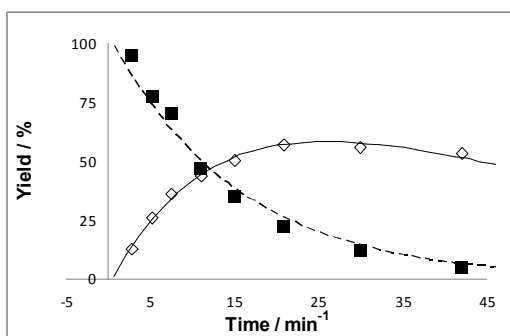
	Hydrolysis		Degradation	
[H ⁺] mmol/ml		$r^o \cdot 10^{-3}$ mmol/s/ml		$r^o \cdot 10^{-3}$ mmol/s/ml
0,06	(1)	0,12	(4)	0,028
0,14	(2)	0,26	(5)	0,076
0,27	(3)	0,55	(6)	0,17



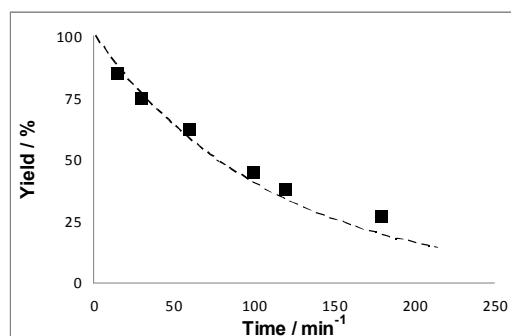
(1) $r^o = 0.12 \pm 11 \%$



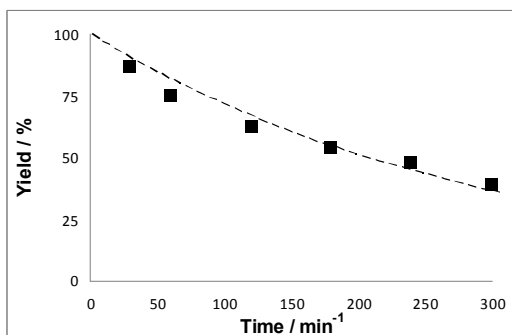
(2) $r^o = 0.26 \pm 12 \%$



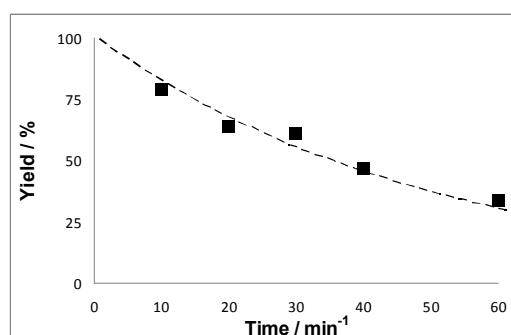
(3) $r^o = 0.55 \pm 5 \%$



(5) $r^o = 0.076 \pm 9 \%$



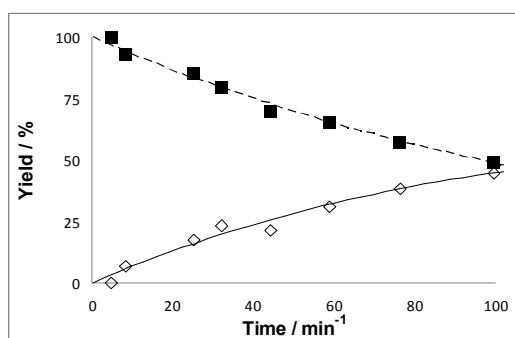
(4) $r^o = 0.028 \pm 6 \%$



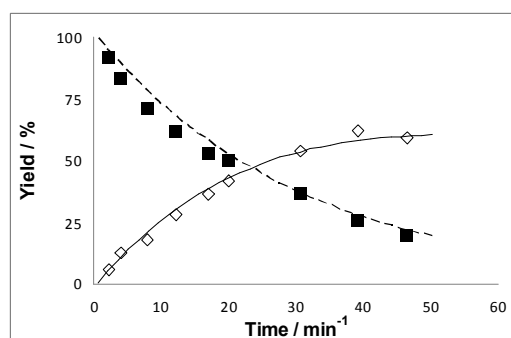
(6) $r^o = 0.17 \pm 8 \%$

Data for Figure 8

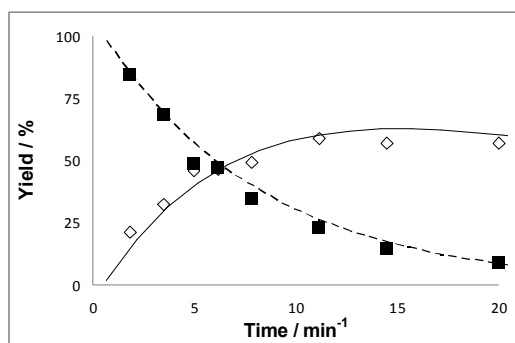
Temperature °C	Hydrolysis		Degradation	
		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$		$r^o \cdot 10^{-3} \text{ mmol/s/ml}$
80	(1)	0,060	(4)	0,018
90			(5)	0,042
95	(2)	0,27	(6)	0,056
110	(3)	1,06	(7)	0,27



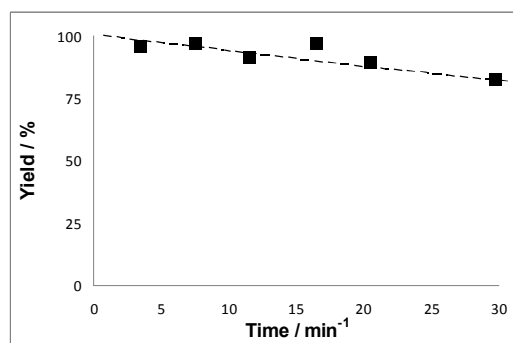
(1) $r^o = 0.060 \pm 3 \%$



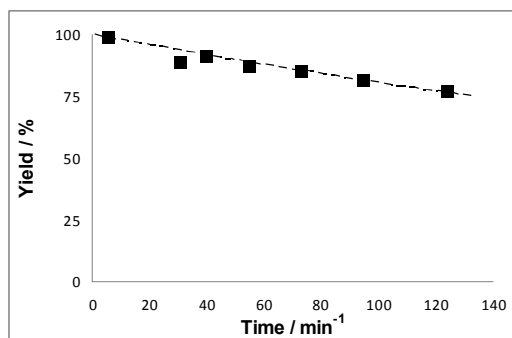
(2) $r^o = 0.27 \pm 3 \%$



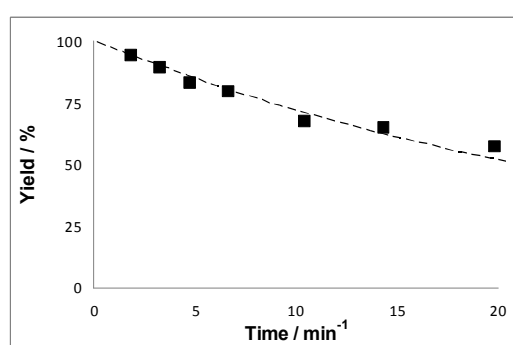
(3) $r^o = 1,1 \pm 4 \%$



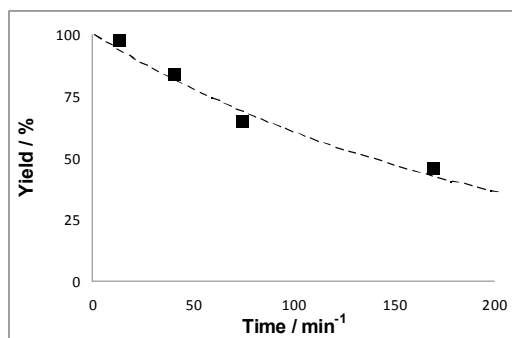
(6) $r^o = 0.056 \pm 13 \%$



(4) $r^o = 0.018 \pm 5 \%$



(7) $r^o = 0.27 \pm 7 \%$



(5) $r^o = 0.042 \pm 8 \%$