

	conversion	anhydride end (M)	acetic acid from reaction (M)	calculations								
				average anhydride start (M)	conc acetic acid end (M)	flow (g/min)	sample (g)	ml 1M NaOH for titration	weight + sample (g)	weight empty + aniline (g)	weight tube empty (g)	
measurements												
temperature outlet (°C)	in spin-pro ¹ (°C)	sample time (min)	settling pump anhydride (mL/min)	settling pump water (mL/min)	Blancs							
1	7.6	0.4	1	90	13.2	13.2	24.9	7.82	11.7	11.7	0.67	
2	7.6	0.4	1	90	13.2	13.2	24.4	7.32	11.2	11.2	0.65	
3	7.6	0.4	1	75	13.2	13.2	25.0	8.54	11.8	11.8	0.72	0.34 ±
4	7.6	0.4	1	60	13.2	13.2	25.1	4.82 ²	6.6 ²	11.9	0.73	0.03
5	7.6	0.4	1	45	13.2	13.2	25.2	6.9	12	12.0	0.58	
6	7.6	0.4	1	30	13.0	13.0	24.7	8.86	11.7	11.7	0.76	
Samples												
7	7.6	0.4	0.5	88.8-90.9	75.3	13.0	34.5	40.0	3.3	5.5	11.0	0.60
8	7.6	0.4	0.5	88.8-90.9		13.1	33.3	39.7	4.11	6.4	12.8	0.64
9	7.6	0.4	0.5	88.8-90.9	75.4	13.0	33.6	39.5	3.73	5.9	11.8	0.63
10	7.6	0.4	0.5	75.9-74.3	64.4	13.0	33.3	39.7	3.66	6.4	12.8	0.57
11	7.6	0.4	0.5	75.5-73.9	64.4	13.0	35.1	41.2	3.85	6.1	12.2	0.63
12	7.6	0.4	0.5	75.5-73.9	64.4	13.1	35.6	41.7	3.85	6.1	12.2	0.63
13	7.6	0.4	0.5	60.7-59.7	53.3	13.0	32.7	38.7	3.09	6	12.0	0.52
14	7.6	0.4	0.5	60.7-59.6	53.2	13.0	32.4	41.5	5.24	9.1	18.2	0.58
15	7.6	0.4	0.5	60.7-59.5	53.1	13.1	31.2	37.7	3.41	6.5	13.0	0.52
16	7.6	0.4	0.5	45.4-44.9	41.2	13.0	33.2	39.3	2.76	6.1	12.2	0.45
17	7.6	0.4	0.5	45.4-44.9		13.0	33.4	39.2	2.77	5.8	11.6	0.48
18	7.6	0.4	0.5	45.4-44.9	41.0	13.0	35.4	40.6	2.6	5.2	10.4	0.50
19	7.6	0.4	0.5	30.1-30.1	29.7	13.1	42.5	48.2	2.61	5.7	11.4	0.46
20	7.6	0.4	0.5	30.1-30.1	29.6	13.0	42.5	48.1	2.56	5.6	11.2	0.46
21	7.6	0.4	0.5	30.1-30.1	29.4	13.0	42.6	49.6	2.83	7	14.0	0.40

¹ Temperature sensors present at two locations in reactor

² Only part of this sample was used for titration