

FIGURES

Ester group	Sub. degree	EA	EtOH	MeTHF	CPME	furfural	iPrOH	RTD	LGO	oleic acid	methyl oleate
	%	weight%	weight%	weight%	weight%	weight%	weight%	weight%	weight%	weight%	weight%
C18- <i>w</i> 9	85	53	53	47	55	53	54	43	48	47	48
C18- <i>w</i> 9	60	51	52	46	42	43	51	28	37	26	35
C18- <i>w</i> 9	50	38	42	43	44	38	50	34	33	26	30
C18- <i>w</i> 9	40	36	45	42	35	38	43	13	<i>6</i>	5	25
C8	100	30	34	31	38	31	30	30	28	34	35
C10	100	26	36	35	32	27	32	31	30	32	29

Bold=Fully dissolved

Italic = not dissolved

Figure 1

Lignin	Sub. Degree % (eq.)	EA w%	EtOH w%	MeTHF w%	CPME w%	furfural w%	iPrOH w%	RTD w%	LGO w%	oleic acid w%	methyl oleate w%
LGTPA2	0	2	n/a	2	2	42	3	n/a	n/a	n/a	n/a
C2	100 (0.92)	50	56	53	12	48	11	not dissolved	n/a	n/a	n/a
C4	100 (1.33)	46	47	40	41	39	38	5	4	5	4
C6	100 (1.43)	50	56	53	42	38	56	25	7	27	30
C6- <i>w</i> 3	100 (0.91)	69	59	52	48	42	44	9	8	10	8
C12	100 (1.09)	56	70	57	49	59	60	48	46	48	47
C14	100 (1.27)	41	52	56	48	42	53	42	46	47	41
C14	20 (0.26)	49	54	53	35	36	44	9	8	9	9
C14	9 (0.12)	8	65	42	8	50	9	8	9	10	8
C18	100 (1.22)	77	72	79	77	71	72	61	62	66	62
C18 (at RT)	100 (1.22)	51	n/a	42	54	n/a	n/a	37	39	33	44
C18	25 (0.31)	52	57	57	41	52	57	7	8	11	9
C18	9 (0.11)	7	61	51	8	53	8	8	9	8	7
C18- <i>w</i> 9 (at RT)	100 (1.24)	66	n/a	58	62	53	n/a	45	52	49	60
C18- <i>w</i> 9	16 (0.20)	48	65	57	44	56	57	8	8	17	8
C18- <i>w</i> 9	5 (0.056)	7	64	54	8	54	8	7	9	7	8
C18- <i>w</i> 6- <i>w</i> 9	~10 (0.096)	7	59	39	6	41	9	8	11	10	9
C22	100 (1.35)	83	11	76	67	66	75	57	45	48	48
C22	18 (0.24)	50	67	55	43	40	49	9	11	6	11
C22	7 (0.088)	9	61	40	7	52	45	7	10	9	9
C22- <i>w</i> 9	100 (1.07)	62	63	75	62	56	56	41	46	48	53

C22- <i>w</i> 9	17 (0.18)	46	53	53	43	40	51	6	12	9	10
C22- <i>w</i> 9	6 (0.061)	8	49	43	8	37	43	8	10	9	8
GM63-C2	100 (0.94)	49	64	54	12	60	56	10	10	12	9
GM63-RTD	~24 (0.24)	51	63	60	38	50	57	13	9	13	9
CF-C2	100 (1.08)	55	62	62	9	59	60	9	11	12	11
CF-RTD	~18 (0.18)	59	64	56	52	58	55	8	9	12	9
C18- <i>w</i> 9:C2	27 (0.31): 73 (0.83)	63	68	64	57	59	62	5	6	6	28

LGTPA2=Lignin type A2

Bold=Fully dissolved

Italic = not dissolved

Figure 2.

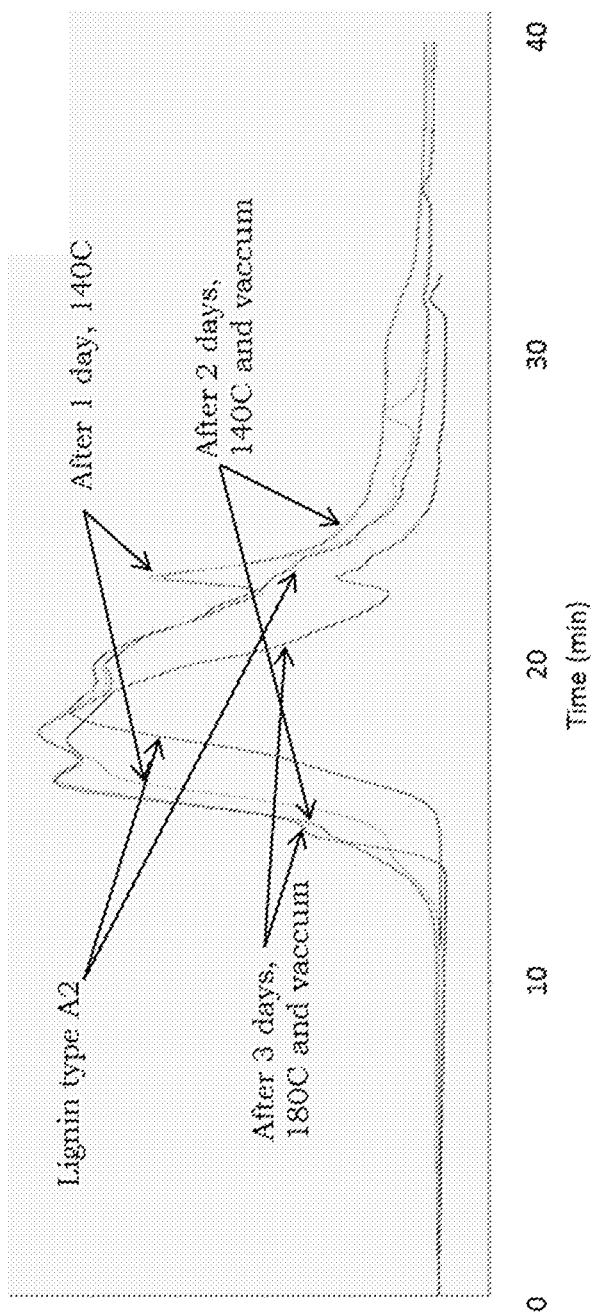


Figure 3.

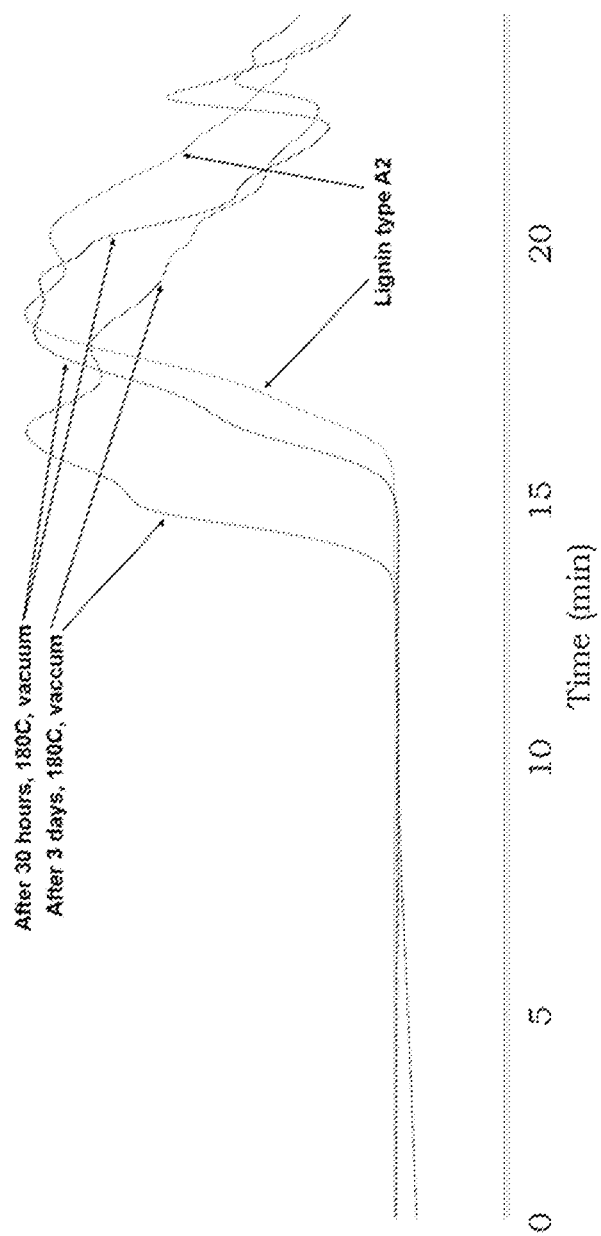


Figure 4.