Monsanto

FROM ANNISTON, ALABAMA

DATE December 29, 1965

SUBJECT Aroclor GLC Analyses

REFERENCE

TO D. R. Middleton
W.G.K.

cc: Messrs.
J. R. Savage
D. C. Armstrong
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The four Aroclor 1242 samples received from you December 17, 1965 have been analyzed for isomer distribution and the data obtained is attached.

Batch 920 was analyzed three times to check precision. The other samples were each analyzed two times and the reported data is the average of the two trials.

An evaluation of the data shows Batch 918 correlates closely to KE467, while Batch 920 and KE468 correlate closely in isomer distribution.

A comparison of these four samples with normal material produced at WGK (reference - my memo of December 6, 1965) indicates that there has been an increase in peaks 12 to 15. This increase is absorbed by a decrease in peaks 25 to 42.

Comparing lime treated samples with KOH treated samples indicates no significant shifts in isomer distribution.

Copies of the chromatograms are available from laboratory records.

J. A. Liddle

/dp
Att.

DSW 248348

Peak Number	Batch 918 (lime)	Batch 920 (KOH)	KE467 (lime)	KE468 (KOH)	Known Isomer
1	0.12	0.18	0.11	0.14	Biphenyl
2	0.10	0.13	0.10	0.12	2-chloro
3,4, & 5	0.04	0.05	0.04	0.05	3-chloro 4-chloro
6 & 7	2.77	3.77	2.75	3.50	2,2'; 2,6
8	0.18	0.36	0.20	0.35	2,5; 2,4
9 & 10	8.12	10.79	8.04	10.63	2,3'; 2,4'; 2,3
11	1.29	1.36	1.26	1.34	3,5
12,13,14, & 15	30.32	31.73	30.34	31.75	3,4; 3,4'; 2,5,2; 4,4'; 2,3,2'
16,17,18,19 & 20	33.96	33.73	34.41	33.62	2,5,4'; 3,4,2'; 2,3,4'
21,22,23, & 24	7.25	5.86	7.38	6.02	
25,26,27, & 28	8.51	6.99	8.35	7.24	3,4,4'
29,30, & 31	4.89	3.51	4.60	3.64	
32,33, & 34	1.70	1.21	1.64	1.25	
35,36,37,38,39, & 40	0.50	0.28	0.48	0.28	
41 & 42	0.18	0.07	0.21	0.08	
43,44, & 45	0.10	0.04	0.09	0.03	
46	0.01	Trace	0.01	Trace	
47	Trace	NDA	Trace	NDA	
48	Trace	NDA	Trace	NDA	
49	NDA	NDA	NDA	NDA	

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