

TYPE OF WORK NEEDED Check appropriate combination

☐ CHEMICAL ☐ INSTRUMENTAL ☐ IR ☐ UV ☐ EMISSION
☐ ESTABLISHED METHODS ☐ METHOD DEVELOPMENT ☐ EXPLORATORY

COMMENTS

Conditions: New 10 ft. column of Apiezon L on Chromasorb-W at 283°C. and 83 ml./min.

ASSIGNED TO

ANALYTICAL REPORT

0067893

Component
(listed in order
of elution)

Concentration in Peak Area % $\approx$ Wt. %

Lot 97 Lot 107 Lot 166 Lot 175 Lot 179 Lot 180 Lot 181 Lot 207 Lot 207 1: Lot 2

Biphenyl	7.1	10.6	7.9 8.2	7.9	6.3	8.2	7.9	9.7	9.0	7.
C	-	-	-	0.2	-	-	0.2	-	-	0.
D (two components)	5.5	5.1	5.5 0.3	5.1	0.1	0.1	0.1	0.1	-	0.
E	0.6	0.3	0.5 0.5	0.6	0.5	0.5	0.5	0.6	0.3	0.
F	0.1	0.1	0.1 0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.
O-Terphenyl	59.4	47.4	54.7 52.7	47.2	45.9	43.4	44.7	45.9	43	
H	1.6	1.4	2.3 0.8	1.8	1.2	0.6	0.9	1.6	0.	
J	0.5	0.3	0.4 -	0.2	0.1	0.1	0.1	-	-	
m-Terphenyl	26.7	35.6	29.1 33.4	38.9	39.1	42.5	37.9	36.6	42	
p-Terphenyl	4.0	4.3	4.7 4.0	4.9	4.8	4.6	5.9	6.5	4.	

E S M Smer

DATE 2-19-60

GAS CHROMATOGRAPHY
ANALYTICAL WORK REQUEST

COPIES:

WHITE-File; YELLOW-Requester; BLUE-Analyst

T O	ANALYTICAL CHEMISTRY AND SPECTROSCOPY GROUP ORGANIC RESEARCH	DATE 1/26/60	CHARGE - Job No. 3429
		REQUESTER G.M. Ellenberg	LOCATION Lab. 106

WORK REQUESTED OR ANALYSIS REQUIRED

Analysis of Santox OM (Plant Production)
% Biphenyl
% ortho-terphenyl
% meta-terphenyl
% para-terphenyl

REASON

To check composition for shipping

COMMENTS

Sample will melt at 120°C

SAMPLE IDENTIFICATION

Lot 97, 107, 166, 175, 179, 180, 181, 207

DATA FOR SPECTROSCOPY WORK Include reaction carried out and possible by-products.

0067894