ORGANIC RESEARCH

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# GENERAL PHYSICAL CHEMISTRY GROUP WORK REQUEST

DATE: 9/1/66

CHARGE - Job No.: 4015

REQUESTER: Bannister

LOCATION: Lab 206 Sta 601

WORK REQUESTED OR ANALYSIS REQUIRED

GLC

125 → 350

REASON: To determine if contamination is present in the sample from Bird Electronics. In the Bird system, degrade are being obtained on electronic components which degrade the dielectric properties of the system.

COMMENTS (e.g. Accuracy requirements, timing situation) Look qualitatively for contaminants which are probably in small amounts, if indeed any can be detected. Quantitation can be dictated by what is seen qualitatively. Results needed by 9/15/66.

SAMPLE INDENTIFICATION (notebook page numbers, lot numbers, dates, or other information that will be unequivocal indefintely.)

(1) OS-59 (Bird Electronics) (8-5-66)
(2) OS-59, Lot QB-4 as standard
(3) " " B-173 " "

OS-59 is tetra-(2-ethylhexyl) orthosilicate

SPECIAL INFORMATION (Data that will facilitate our work such as known solvents for molecular weight samples, melting point if properties in solid and liquid state are needed, maximum process temperature for thermal stability samples, boiling points for gas chromatography, chemical reaction involved, etc.)

Unstable ____, Explosive ____, Toxic ____, Stench ____, sublimes ____, Hygroscopic ____, Use dry box ____

M. P. ____, B.P. ____ mm, Solvents ____

Other ____

Try SE-52

DSW 298114

Q-627

STLCOPCB4068025

This side to filled in by general physical chemistry group

REPORT OF RESULTS

DATE 10-12-66

TO:

CC:

| Sample | B-173 | Bird Electronics 8-5-66 |
|---|---|---|
| Low Boilers (2 Ethyl-Hexanal) | 1.41 | 10.30 |
| 1 | — | 0.01 |
| 2 | — | 0.01 |
| 3 | — | 0.05 |
| 4 | — | 0.01 |
| 5 | 0.08 | 2.43 |
| 05-59 | 96.10 | 84.00 |
| 6 | — | 0.13 |
| 7 | — | 0.10 |
| 8 | 0.07 | —— |
| 9 | — | 0.25 |
| Siloxane | 2.28 | 2.33 |
| 10 | — | 0.02 |
| 11 | — | 0.19 |
| 12 | — | 0.13 |

DSW 298115

Mees

SIGNATURE

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