L-18

ORGANIC RESEARCH

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GENERAL PHYSICAL CHEMISTRY
GROUP WORK REQUEST

DATE	CHARGE - Job No.
10/9/63	4290
REQUESTER	LOCATION
Bannister	Lab 206 Sta. 430

WORK REQUESTED OR ANALYSIS REQUIRED

GLC

REASON: To provide further data on constitution on MCS 169 & MCS 198 and to shed light, if possible, on decomposition mechanisms.

COMMENTS (e.g. Accuracy requirements, timing situation) — On previous work on MCS 198, you used 2M 5% SE-52 & found at least 17 components. Results are wanted as quantitatively as possible, particularly since we are looking to see if there are differences caused by the DTA Test.

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

1. MCS 169, Lot QC-1007
2. MCS 169, Lot 85167
3. MCS 169, Lot 85167 after DTA Test 63-84
4. MCS 198, Lot W-25
5. MCS 198, Lot W-25 after DTA Test 63-83

MCS 169 = tetraisobutyl orthosilicate
MCS 198 = tetra(isopropyl, sec-butyl)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 recation involved, etc.)

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

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

Other ____

DSW 298294

STLCOPCB4068206

This side to filled in by general physical chemistry group

REPORT OF RESULTS

DATE 11-26-63

TO:

	MCS-169 Lot QC-1007	MCS-169 85167	MCS-169 CC: 85167 from DTA Test
① -	0.2%	1.2%	1.5%
② -	0.5	0.3	0.4
③ -	0.2	0.03	0.2
④ -		0.2	0.2
⑤ -	94.0	89.9	88.6
⑥ -	1.0	1.1	1.2
⑦ -	3.9	6.8	7.3
⑧ -	0.2	0.5	0.6

	MCS-198 Lot-W-25	MCS-198 Lot W.25 after DTA Test
①	9.1%	8.9%
②	26.6	26.8
③	27.0	26.7
④	13.5	13.5
⑤	3.7	3.8
⑥	4.4	4.5
⑦	6.9	7.1
⑧	5.4	5.3
⑨	2.2	2.2
⑩	0.6	0.6
⑪	0.3	0.2
⑫	0.2	0.2
⑬	0.1	0.1
⑭	0.02	0.04

DSW 298295

G. Gasser

SIGNATURE

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