

FLUOROPOLYMERS 80-7

PAC 30

2-4-80



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

WILMINGTON, DELAWARE 19898

POLYMER PRODUCTS DEPARTMENT
EXPERIMENTAL STATION

cc: A. J. Dahl - 269
L. J. Papa - 269
R. G. Pembleton - 269
W. C. Percival - 353
W. H. Shaw, Jr. - 353
T. K. Wu - 323
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ANALYTICAL REPORT

July 8, 1980

TO: -S. S. STAFFORD - 269 Building -

FROM: R. S. SUDOL

FLUORINE-19 NMR ANALYSIS OF C-8 ACID
AND OTHER FLUOROCARBON MATERIALS
(JOB No. 800-138; PRAL No. 80-1988)

Perfluoro-n-octanoic acid plus a series of other related fluorocarbon materials have been analyzed using the Bruker WP200 spectrometer to obtain fluorine-19 spectra at 188.28 MHz. The results are tabulated below.

Sample	Mole Percent		
	$\text{CF}_3(\text{CF}_2)_6\text{COOX}$	$(\text{CF}_3)_2\text{CF}(\text{CF}_2)_4\text{COOX}$	Other Branched Isomers
80-1988			
E20029-31 (S.S. Stafford)			
Perfluoro-n-octanoic acid, methyl ester	99	~1	~trace
Perfluoro-n-octanoic acid			
PCR Research Co.	99	~1	~trace
Methyl perfluorooctanoate			
Lot #1868 PCR 6/5/80	98.7	1.0	0.3
80-6440			
"EFTOP 204"			
Tohoku Hiryo Co.			
C-8 Ammonium			
Perfluorocarpylate (APFC)	95.1	2.3	2.5
RIHAR C-8 APFC			
WL 2-20-80			
No other ident.	98	2	
3-M Fluorad®			
FC-143 (Lot 10)			
RDL 1-23-80 APFC	81.1	7.8	11.1
erfluorodecanoic acid	all linear		
PCR Lot #9663	C-10		
6-5-80			

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Key Words:

Fluorine-19
APFC

There's a world of things we're doing something about

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Perfluorodecanoic acid PCR Lot #9663 6-5-80	all linear C-10		

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