Triton Analytics Corporation
16840 Barker Springs, #302
Houston, TX 77084

Z-type Summary

sample: **No. 2 Diesel**

data file/run date 103515 7/18/02
TAC ref: xxxx
Assumed HTSD recovery: **100 % boiling below 1000F**

Note: values reported represent only a "best estimate"
Weight Percentage

Iso/normal paraffin ratio

weighted average	0.90

average carbon # of n-paraffins	15.3

Z number Summary

+2	38.64	Paraffins:	38.64
+0	22.27		
-2	13.50		
-4	3.72	Cyclanes:	39.49
-6p	0.00	Phenols	
-6	4.03		
-8	3.58		
-10b	0.42	Benzothiophenes	
-10	1.57	Monoaros:	9.60
-12	6.02		
-14	4.55		
-15	0.00	Carbazoles	
-16db	0.37	Dibenzothiophenes	
-16	0.73	Diaros:	11.67
-18	0.59		
-20	0.02		
-22bn	0.00	Benzonaphthothiophenes	
-22	0.01	Triaros:	0.61
-24	0.00		
-26	0.00		
-28	0.00	Tetraaros:	0.00
-30	0.00		
-32	0.00	Pentaaros:	0.00
			100.00

average # of carbons	14.8
average # of hydrogens	27.7
average # of oxygens	0.00
average # of sulfurs	0.01
average # of nitrogens	0.00
average molecular weight	206.0

phenolic oxygen	0.00	wt %
thiophenic sulfur	0.13	wt %
carbazolic nitrogen	0.00	wt %

Analyst: Calvin R. Blakley

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Z-Type vs. Carbon Number

sample: **No. 2 Diesel**

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Assumed HTSD recovery: 100 % boiling below 1000F

Note: values reported represent only a "best estimate"

WT %

Z number / C#	+2(i)	+2(n)	0	-2	-4	-6 phenols	-6	-8	-10 benzo-thiophenes	-10	-12	-14	-15 carbazoles	-16 dibenzo-thiophenes	-16	-18	-20	-22 benzo-naphtho-thiophenes	-22	-24	-26	-28	-30	-32	
5	0.00	0.00	0.00																						
6	0.01	0.00	0.01			0.00	0.00																		
7	0.02	0.00	0.16	0.00		0.00	0.02																		
8	0.08	0.09	0.39	0.01		0.00	0.10	0.00	0.00																
9	0.21	0.25	0.71	0.11		0.00	0.23	0.01	0.02	0.01															
10	0.46	0.62	1.20	0.45	0.00	0.00	0.28	0.08	0.08	0.02	0.10														
11	1.04	1.43	2.10	1.33	0.05	0.00	0.34	0.30	0.09	0.06	0.84														
12	1.31	1.83	2.20	1.79	0.17	0.00	0.36	0.56	0.07	0.08	1.93	0.21	0.00	0.08	0.01										
13	1.82	2.02	2.53	2.05	0.34	0.00	0.42	0.67	0.06	0.15	1.57	0.83	0.00	0.14	0.08										
14	1.90	2.05	2.35	1.77	0.52	0.00	0.45	0.55	0.04	0.25	0.81	1.23	0.00	0.11	0.19	0.15									
15	1.91	2.18	2.26	1.55	0.59	0.00	0.46	0.41	0.03	0.33	0.38	1.11	0.00	0.04	0.23	0.23									
16	1.90	2.02	2.00	1.20	0.57		0.41	0.31	0.01	0.26	0.19	0.62	0.00	0.00	0.13	0.12	0.00	0.00	0.01						
17	1.70	2.31	1.85	1.00	0.47		0.32	0.26	0.00	0.18	0.11	0.33	0.00	0.00	0.06	0.02	0.01	0.00	0.00						
18	1.80	2.07	1.58	0.81	0.39		0.25	0.19	0.00	0.11	0.05	0.11	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00					
19	1.85	1.70	1.28	0.63	0.28		0.17	0.12	0.00	0.06	0.03	0.07	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00					
20	1.27	1.03	0.86	0.40	0.17		0.11	0.07	0.00	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
21	0.61	0.51	0.49	0.23	0.09		0.05	0.04	0.00	0.02	0.01	0.02		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00			
22	0.26	0.15	0.21	0.11	0.05		0.03	0.01	0.00	0.01	0.00	0.00		0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.12	0.03	0.07	0.04	0.02		0.01	0.01		0.00	0.00	0.00		0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.04	0.00	0.02	0.01	0.01		0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.01	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00			0.00	0.00					
28	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00			0.00	0.00					
29	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00			0.00	0.00					
30	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
31	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
32	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
33	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
34	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
35	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
36	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
37	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
38	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
39	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
40	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			0.00	0.00									
sum	18.34	20.30	22.27	13.50	3.72	0.00	4.03	3.58	0.42	1.57	6.02	4.55	0.00	0.37	0.73	0.59	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	100.00

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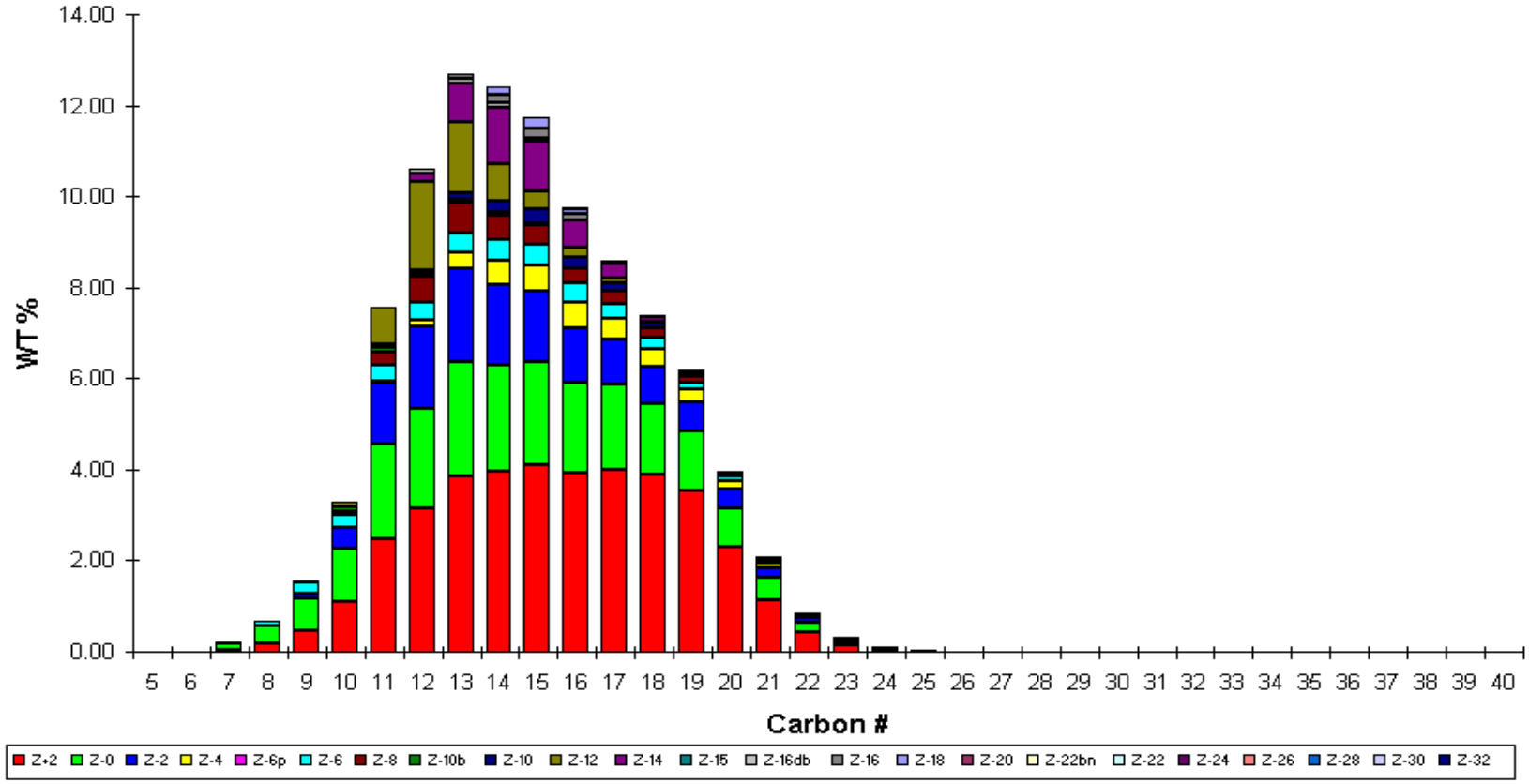
Z-type Distribution

No. 2 Diesel



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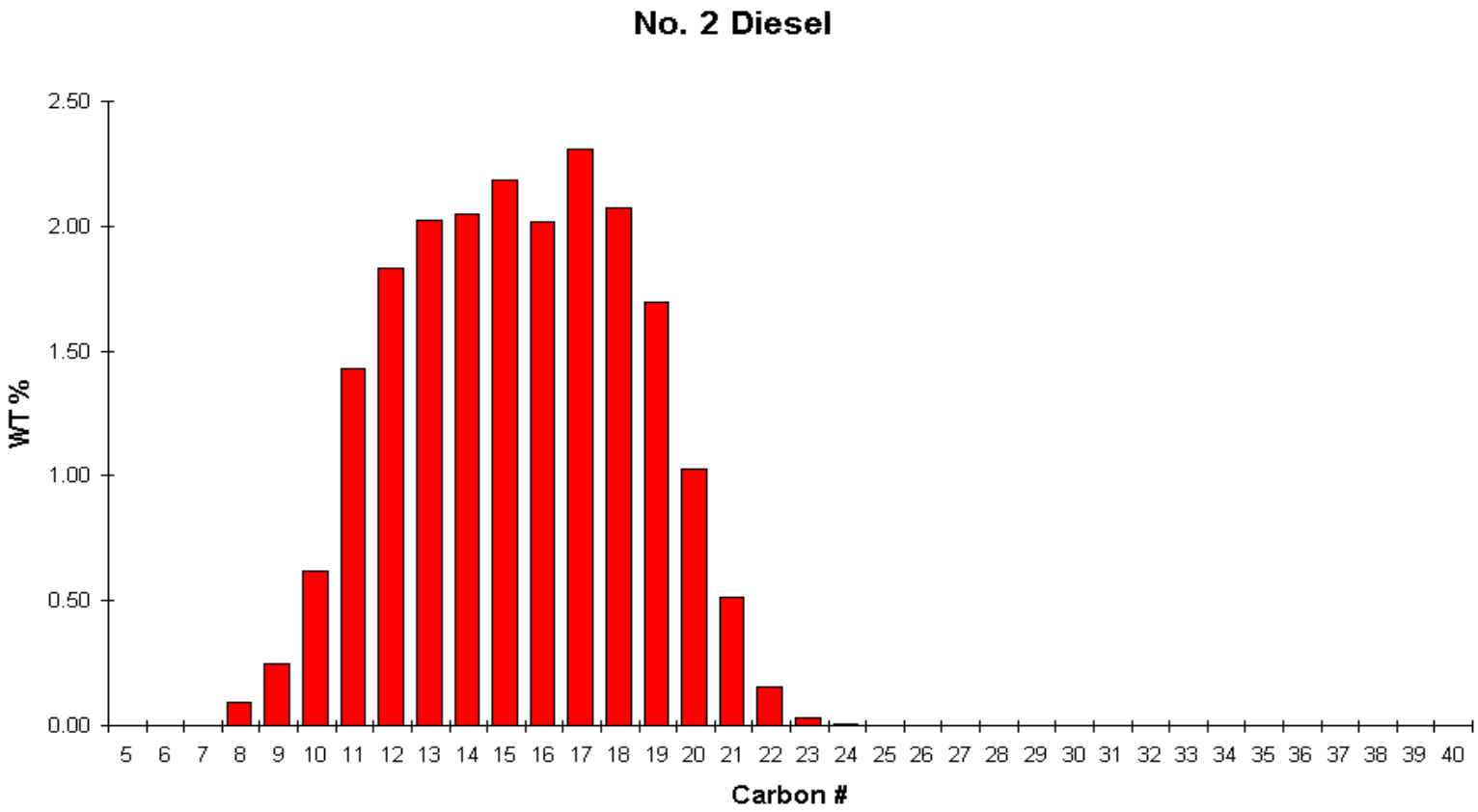
Normal Paraffin Distribution



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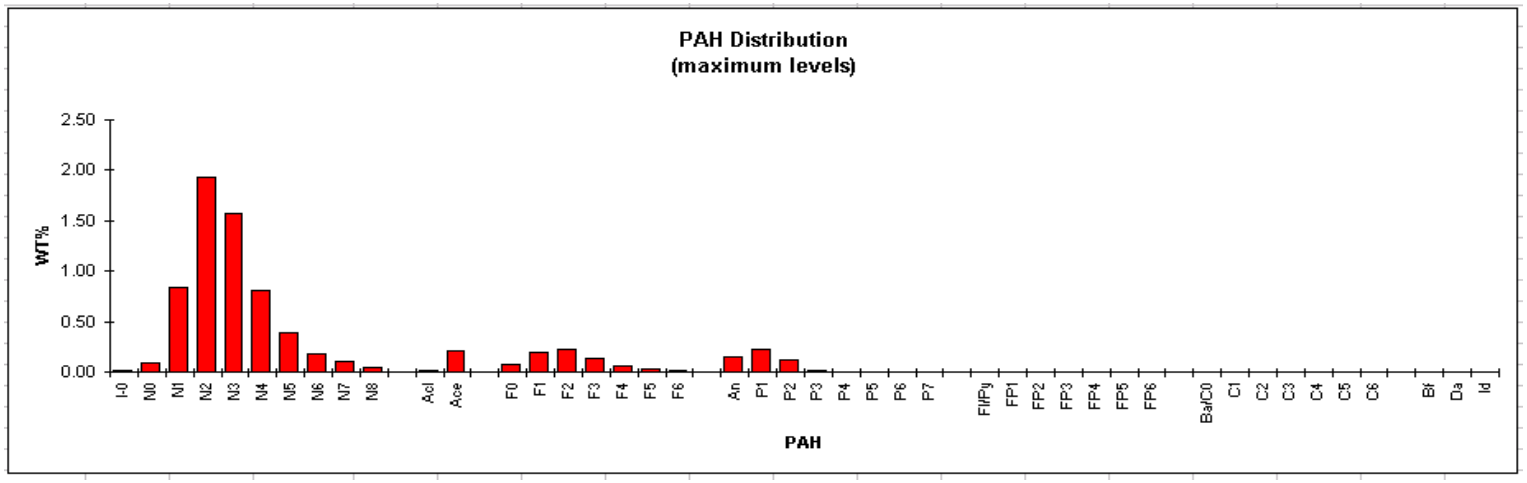
sample name: **No. 2 Diesel**
run date: 7/18/02

data file: **103515**
TAC ref: xxxx



I0	Indene
N0	naphthalene
N1	C1-naphthalenes
N2	C2-naphthalenes
N3	C3-naphthalenes
N4	C4-naphthalenes
N5	C5-naphthalenes
N6	C6-naphthalenes
N7	C7-naphthalenes
N8	C8-naphthalenes
Acl	Acenaphthylene
Ace	Acenaphthene

F0	Fluorene
F1	C1-fluorenes
F2	C2-fluorenes
F3	C3-fluorenes
F4	C4-fluorenes
F5	C5-fluorenes
F6	C6-fluorenes
An	Anthracene/phenanthrene
P1	C1-anthracene/phenanthrenes
P2	C2-anthracene/phenanthrenes
P3	C3-anthracene/phenanthrenes
P4	C4-anthracene/phenanthrenes
P5	C5-anthracene/phenanthrenes
P6	C6-anthracene/phenanthrenes
P7	C7-anthracene/phenanthrenes
P8	C8-anthracene/phenanthrenes

Fl/Py	Fluoranthene/pyrene
FP1	C1-fluoranthene/pyrenes
FP2	C2-fluoranthene/pyrenes
FP3	C3-fluoranthene/pyrenes
FP4	C4-fluoranthene/pyrenes
FP5	C5-fluoranthene/pyrenes
FP6	C6-fluoranthene/pyrenes
Ba/C0	Benzo(a)anthracene/chrysene
C1	C1-Benzo(a)anthracene/chrysenes
C2	C2-Benzo(a)anthracene/chrysenes
C3	C3-Benzo(a)anthracene/chrysenes
C4	C4-Benzo(a)anthracene/chrysenes
C5	C5-Benzo(a)anthracene/chrysenes
C6	C6-Benzo(a)anthracene/chrysenes
Bf	Benzo(b),(k)fluoranthenes/(a)pyrene
Da	Dibenz(a,h)anthracene
Id	Indeno(1,2,3-cd)pyrene/benzo(ghi)perylene

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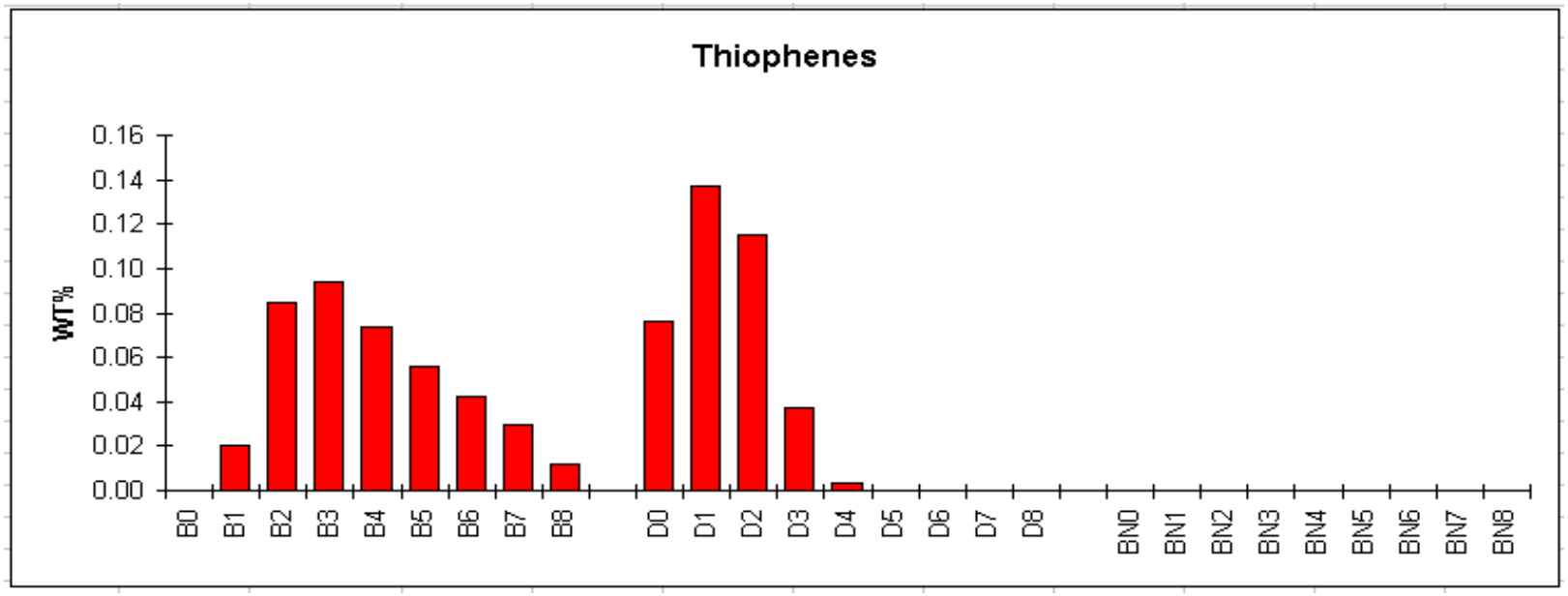

B0	Benzothiophene	D0	Dibenzothiophene	BN0	Benzonaphthothiophene
B1	C1-benzothiophenes	D1	C1-dibenzothiophenes	BN1	C1-Benzonaphthothiophenes
B2	C2-benzothiophenes	D2	C2-dibenzothiophenes	BN2	C2-Benzonaphthothiophenes
B3	C3-benzothiophenes	D3	C3-dibenzothiophenes	BN3	C3-Benzonaphthothiophenes
B4	C4-benzothiophenes	D4	C4-dibenzothiophenes	BN4	C4-Benzonaphthothiophenes
B5	C5-benzothiophenes	D5	C5-dibenzothiophenes	BN5	C5-Benzonaphthothiophenes
B6	C6-benzothiophenes	D6	C6-dibenzothiophenes	BN6	C6-Benzonaphthothiophenes
B7	C7-benzothiophenes	D7	C7-dibenzothiophenes	BN7	C7-Benzonaphthothiophenes
B8	C8-benzothiophenes	D8	C8-dibenzothiophenes	BN8	C8-Benzonaphthothiophenes

average molecular weights

188.5	Benzothiophenes	202.7	Dibenzothiophenes	234.0	Benzonaphthothiophenes

weight percent thiophenic sulfur 0.13 %