

# NIST SRM 1975, Diesel Particulate Extract, on Rxi®-PAH

Peaks	Column	Rxi®-PAH, 60 m, 0.25 mm ID, 0.10 µm (cat.# 49317)	SIM Program:	Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1. Naphthalene-D8	Sample	NIST SRM 1975		1	3.09	102.1, 108.1, 128.1, 136.2	40
2. Naphthalene	Diluent:	Dichloromethane		2	5.69	115.1, 142.1	40
3. 2-Methylnaphthalene	Injection			3	6.23	76.1, 141.1, 154.1, 156.2	40
4. Biphenyl	Inj. Vol.:	1 µL split (split ratio 10:1)		4	6.95	75.6, 76.1, 91.1, 152.1, 153.1, 155.1, 162.2, 170.2	20
5. Acenaphthylene	Liner:	Premium 4 mm Precision liner w/wool (cat.# 23305.1)		5	7.93	82.4, 165.1	40
6. Acenaphthene-D10	Inj. Temp.:	275 °C		6	9.19	139.1, 152.1, 160.2, 178.1, 184.1, 188.2	40
7. Acenaphthene	Split Vent			7	11.78	94.6, 165.1, 190.1, 192.1	40
8. Fluorene	Flow Rate:	19.5 mL/min		8	14.19	101.1, 202.1	40
9. Dibenzothiophene	Oven			9	16.60	101.1, 202.1	40
10. Phenanthrene-D10	Oven Temp.:	110 °C (hold 1.6 min) to 210 °C at 24 °C/min to 295 °C at 1.9 °C/min to 350 °C at 3.7 °C/min (hold 6 min)		10	18.49	92.1, 184.1	40
11. Phenanthrene	Carrier Gas	He, constant flow		11	19.58	108, 216	40
12. Anthracene	Flow Rate:	1.95 mL/min		12	22.3	196.1, 212.2	40
13. 4H-Cyclopenta[def]phenanthrene	Detector	MS		13	24.92	113.1, 226.1, 228.1	40
14. Fluoranthene	Mode:	SIM		14	26.27	113.1, 114.0, 120.1, 226.1, 228.1, 240.1	40
15. Pyrene	Transfer Line			15	28.75	154.1, 252.1	35
16. Benzo[ghi]fluoranthene	Temp.:	330 °C		16	30.62	119.8, 242.2	40
17. Benzo[c]phenanthrene	Temp.:	330 °C		17	35.29	126.1, 252.1	40
18. Benz[a]anthracene	Analyzer Type:	Quadrupole		18	38.56	125.1, 252.1	40
19. Chrysene-D12	Source Type:	Extractor		19	39.23	126.1, 252.1	40
20. Triphenylene	Extractor Lens:	9 mm ID		20	40.71	125.1, 126.1, 132.1, 252.1, 264.1	40
21. Chrysene	Source Temp.:	350 °C		21	42.91	125, 132.2, 252.1, 264.1	40
22. Benzo[b]fluoranthene	Quad Temp.:	200 °C		22	44.35	252.1, 268.1	40
23. Benzo[k]fluoranthene	Solvent Delay			23	48.41	139.1, 139.5, 278.1, 279.1	40
24. Benzo[j]fluoranthene	Time:	3 min		24	52.13	139.1, 139.5, 278.1, 279.1	40
25. Benzo[e]pyrene	Tune Type:	DFTPP		25	53.70	138.1, 139.1, 278.1	40
26. Benzo[a]pyrene-D12	Ionization Mode:	EI		26	54.97	138.1, 276.1	40
27. Benzo[a]pyrene	Instrument	Agilent 7890B GC & 5977A MSD		27	55.92	138.1, 276.1	40
28. Perylene-D12				28	57.04	132.6, 267.1	40
29. Dibenzo[a,j]anthracene				29	59.69	151.0, 302.1	40
30. Dibenzo[a,c]anthracene				30	63.27	150, 151, 156.1, 300.1, 302.1, 312.1	40
31. Indeno[1,2,3-cd]pyrene				31	64.78	151.0, 302.1	40
32. Dibenz[a,h]anthracene							
33. Benzo[b]chrysene							
34. Picene							
35. Benzo[ghi]perylene							
36. Dibenzo[b,k]fluoranthene							
37. Coronene-D12							
38. Coronene							

