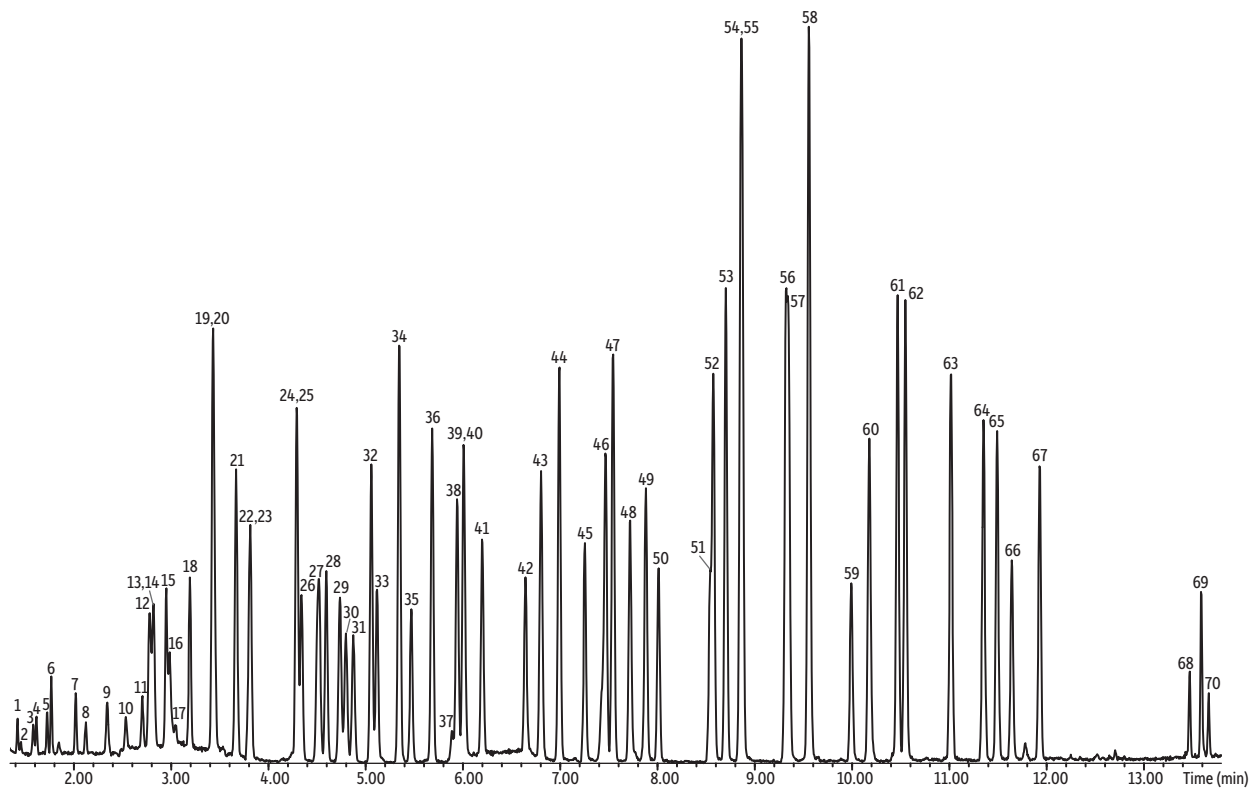


TO-15 65 Component Mix on Rxi®-624Sil MS (30 m)

Peaks	t _r (min)	Peaks	t _r (min)	Peaks	t _r (min)
1. Propylene	1.42	25. <i>cis</i> -1,2-Dichloroethene	4.29	49. Dibromochloromethane	7.88
2. Dichlorodifluoromethane (Freon® 12)	1.46	26. Ethyl acetate	4.34	50. 1,2-Dibromoethane	8.01
3. 1,2-Dichlorotetrafluoroethane (Freon® 114)	1.58	27. Bromochloromethane (IS)	4.50	51. Chlorobenzene-d5 (IS)	8.54
4. Chloromethane	1.62	28. Tetrahydrofuran	4.52	52. Chlorobenzene	8.58
5. Vinyl chloride	1.73	29. Chloroform	4.60	53. Ethylbenzene	8.71
6. 1,3-Butadiene	1.77	30. 1,1,1-Trichloroethane	4.74	54. <i>m</i> -Xylene	8.87
7. Bromomethane	2.02	31. Cyclohexane	4.80	55. <i>p</i> -Xylene	8.87
8. Chloroethane	2.12	32. Carbon tetrachloride	4.88	56. <i>o</i> -Xylene	9.32
9. Trichlorofluoromethane (Freon® 11)	2.34	33. Benzene	5.06	57. Styrene	9.35
10. Ethanol	2.54	34. 1,2-Dichloroethane	5.12	58. Bromoform	9.56
11. Acrolein	2.71	35. Heptane	5.35	59. 4-Bromofluorobenzene*	9.99
12. 1,1-Dichloroethene	2.78	36. 1,4-Difluorobenzene (IS)	5.47	60. 1,1,2,2-Tetrachloroethane	10.18
13. 1,1,2-Trichlorotrifluoroethane (Freon® 113)	2.80	37. Trichloroethylene	5.69	61. 4-Ethyltoluene	10.47
14. Acetone	2.82	38. 1,2-Dichloropropane	5.94	62. 1,3,5-Trimethylbenzene	10.55
15. Carbon disulfide	2.95	39. Methyl methacrylate	6.01	63. 1,2,4-Trimethylbenzene	11.02
16. Isopropyl alcohol	2.99	40. 1,4-Dioxane	6.02	64. 1,3-Dichlorobenzene	11.35
17. Acetonitrile (contaminant)	3.05	41. Bromodichloromethane	6.20	65. 1,4-Dichlorobenzene	11.49
18. Methylene chloride	3.20	42. <i>cis</i> -1,3-Dichloropropene	6.64	66. Benzyl chloride	11.65
19. <i>trans</i> -1,2-Dichloroethene	3.43	43. 4-Methyl-2-pentanone (MIBK)	6.80	67. 1,2-Dichlorobenzene	11.93
20. Methyl <i>tert</i> -butyl ether (MTBE)	3.44	44. Toluene	6.99	68. 1,2,4-Trichlorobenzene	13.47
21. Hexane	3.67	45. <i>trans</i> -1,3-Dichloropropene	7.26	69. Hexachlorobutadiene	13.59
22. 1,1-Dichloroethane	3.80	46. 1,1,2-Trichloroethane	7.47	70. Naphthalene	13.67
23. Vinyl acetate	3.82	47. Tetrachloroethene	7.55		
24. 2-Butanone (MEK)	4.29	48. 2-Hexanone (MBK)	7.72		

*Tuning standard



GC_AR1148

Column	Rxi®-624Sil MS, 30 m, 0.32 mm ID, 1.80 µm (cat.# 13870)	Solvent Delay	Time: 1.0 min	Cooling temp:	-35 °C
Sample	TO-15 65 component mix (cat.# 34436) TO-14A internal standard/tuning mix (cat.# 34408)	Tune Type:	BFB	Desorb temp:	190 °C
Diluent:	Nitrogen	Ionization Mode:	EI	Desorb time:	30 sec
Conc.:	10.0 ppbv 200 cc injection	Scan Range:	35 - 250 amu	Bakeout temp:	200 °C
Injection	Direct	Scan Rate:	3.32 scans/sec	Bakeout time:	10 sec
Oven		Preconcentrator	Nutech 8900DS	Cryofocuser	
Oven Temp:	32 °C (hold 1 min) to 150 °C at 11 °C/min to 230 °C at 33 °C/min	Trap 1 Settings		Cooling temp:	-160 °C
Carrier Gas	He, constant flow	Type/Sorbent :	Glass Beads	Inject time:	140 sec
Flow Rate:	2.0 mL/min	Cooling temp:	-155 °C	Internal Standard	
Linear Velocity:	51 cm/sec @ 32 °C	Preheat temp:	5 °C	Purge flow:	100 mL/min
Detector	MS	Preheat time:	0 sec	Purge time:	6 sec
Mode:	Scan	Desorb temp:	20 °C	Vol.:	20 mL
Transfer Line		Desorb flow:	5 mL/min	ISTD flow:	100 mL/min
Temp.:	230 °C	Desorb time:	360 sec	Standard	
Analyzer Type:	Quadrupole	Bakeout temp:	200 °C	Size:	200 mL
Source Temp.:	230 °C	Flush flow:	120 mL/min	Purge flow:	100 mL/min
Quad Temp.:	150 °C	Flush time:	60 sec	Purge time:	6 sec
Electron Energy:	69.9 eV	Sweep flow:	120 mL/min	Sample flow:	100 mL/min
		Sweep time:	60 sec	Instrument	HP6890 GC & 5973 MSD
		Trap 2 Settings		Acknowledgement	Nutech
		Type/Sorbent:	Tenax®		