

TR-V1

TRACE GC Capillary Column

Key Words

- Cyanopropylphenyl
- EPA 624
- G43
- Volatiles

Introduction

The TR-V1 from Thermo Electron Corporation is a cyanopropylphenyl based phase ideal for the analysis of volatile compounds. The selectivity and film thickness ensures good retention and separation of volatile compounds at low oven temperatures. The column does have a high maximum operating temperature of 300°C which provides versatility in the event of samples containing less volatile compounds. The column can be heated quickly to remove contaminants thus reducing cycle times and increasing sample throughput.



Phase Type

Cyanopropylphenyl Polysiloxane

Maximum Temperatures

280°C / 300°C

USP Category

G43

Cross Reference of Competitor Phases

DB-624, BPX Volatiles, Rtx Volatiles, VOCOL 56, OV-624, AT-624, HP-VOC, CP-Select 624CB, 007-624, ZM-624

Application

The TR-V1 has been customised for the best resolution from both the front and back ends of chromatograms.

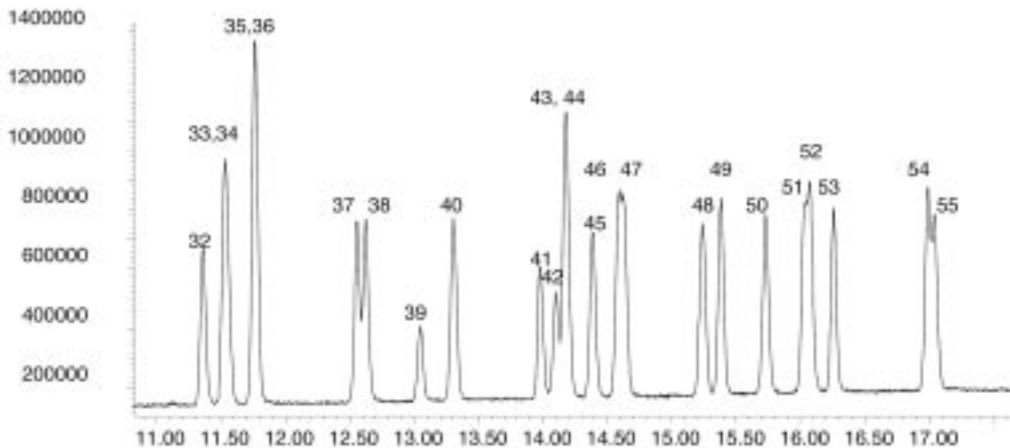
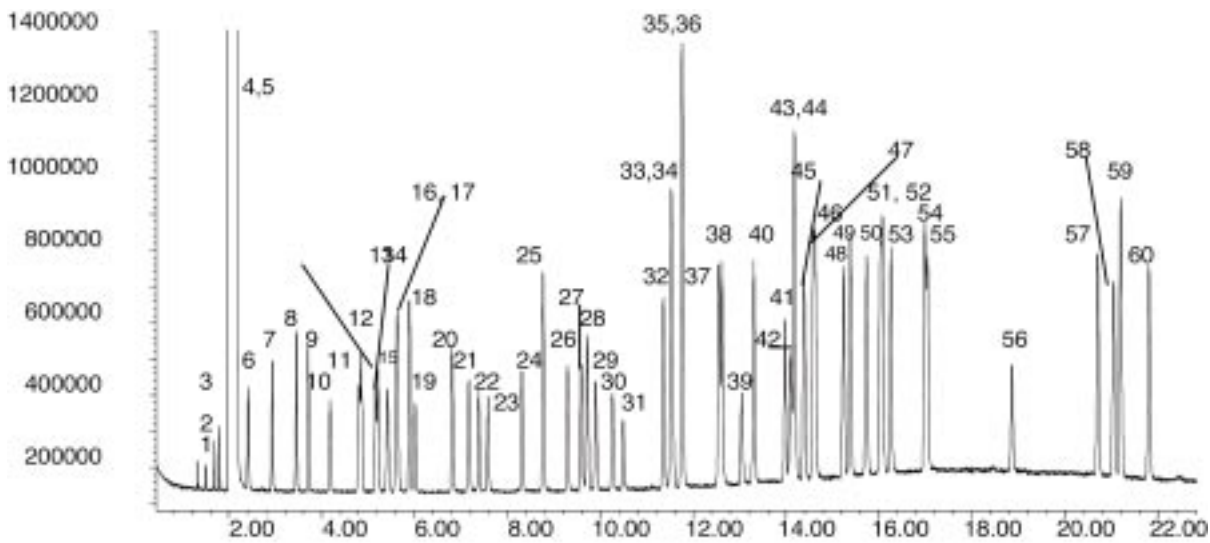
TR-V1 Product Information

ID (mm)	FILM THICKNESS (µm)	LENGTH (m)	PART NO.
0.18	1.00	20	260V495P
0.18	1.00	40	260V496P
0.25	1.40	30	260V332P
0.25	1.40	60	260V333P
0.32	1.80	30	260V339P
0.32	1.80	60	260V341P
0.53	3.00	30	260V396P
0.53	3.00	60	260V408P

Analysis of US EPA 502.2 mix

Part No.: 260V332P
 Column: 30m x 0.25 mm ID
 Phase: TR-V1, 1.4µm film
 Injection Mode: Split
 USEPA 502.2 mix: 200 ppm in Methanol
 Split Ratio: 50:1
 Injection Volume: 1 µL
 Initial Temp: 40°C, 1 min.
 Injection Temp: 250°C
 Rate 1: 6°C/min to 210°C
 Autosampler: No
 Rate 2: 15°C/min to 240°C
 Liner Type: 4 mm ID Single Taper Liner
 Final Temp: 240°C, 5 min.
 Detector Type: Mass Spectrometer
 Carrier Gas: He, 22.8psi
 Carrier Gas Flow: 1.3 mL/min.
 Constant Flow: On Full scan 45-450
 Average Linear Velocity: 35 cm/sec at 40°C

Components	Components	Components
1. Dichlorodifluoromethane	16. 1,1-Dichloropropene	31. 1,2-Dibromoethane
2. Chloromethane	17. Carbon tetrachloride	32. Chlorobenzene
3. Vinyl chloride	18. Benzene	33. Ethylbenzene
4. Bromomethane	19. 1,2-Dichloroethane	34. 1,1,1,2-Tetrachloroethane
5. Chloroethane	20. Trichloroethene	35. m-Xylene
6. Trichlorofluoromethane	21. 1,2-Dichloropropane	36. p-Xylene
7. 1,1-Dichloroethene	22. Dibromomethane	37. o-Xylene
8. Dichloromethane	23. Bromodichloromethane	38. Styrene
9. trans-1,2-Dichloroethene	24. cis-1,3-Dichloropropene	39. Bromoform
10. 1,1-Dichloroethane	25. Toluene	40. Isopropylbenzene
11. 2,2-Dichloropropane	26. trans-1,3-Dichloropropene	41. Bromobenzene
12. cis-1,2-Dichloroethene	27. 1,1,2-Trichloroethane	42. 1,1,2,2-Tetrachloroethane
13. Bromochloromethane	28. Tetrachloroethene	43. 1,2,3-Trichloropropane
14. Chloroform	29. 1,3-Dichloropropane	44. n-Propyl benzene
15. 1,1,1-Trichloroethane	30. Dibromochloromethane	45. 2-Chlorotoluene
		46. 1,3,5-Trimethylbenzene
		47. 4-Chlorotoluene
		48. tert-Butylbenzene
		49. 1,2,4-Trimethylbenzene
		50. sec-Butylbenzene
		51. 1,3-Dichlorobenzene
		52. p-Isopropyltoluene
		53. 1,2-Dichlorobenzene
		54. n-Butylbenzene
		55. 1,4-Dichlorobenzene
		56. 1,2-Dibromo-3-chloropropan
		57. 1,2,4-Trichlorobenzene
		58. Hexachlorobutadiene
		59. Naphthalene
		60. 1,2,3-Trichlorobenzene



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