

VARIAN 毛细柱 (Chrompack)

CP-Sil 2 CB

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- ★极性最低的化学键合相柱
- ★对环烷烃有独一无二的选择性

CP-Sil 2 CB 毛细色谱柱对样品的分离几乎完全按照沸点的高低来进行。当前在石化行业中对于轻油的分析,许多实验经开始用 CP-Sil 2 CB 柱来替换角鲨烷型填充柱了。主要原因是 CP-Sil 2 CB 柱有以下特点:

- ◆采用化学键合方式,提高了稳定性
- ◆可以应用于更高的温度
- ◆对环烷烃独一无二的选择性
- ◆较高的进样体积

化学组成

- ◇含高分子量烃的交联硅氧烷
- ◇与角鲨烷(异三十烷)类似
- ◇Tmin:25°C
- ◇Tmax:200/200°C
- ◇McReynolds 常数: 20, 23, 8, 34,

18
同类产品

Squalane (角鲨烷); SPB-Octyl

CP-Sil 2 CB (极性指数)

Low				High
0	2	50	100	

组分	应用索引
芳香烃	908
烃类	903
含氧化合物	904
多环芳烃	909
溶剂	905

CP-Sil 2 CB fused silica

ID (mm)	Length (m)	Df (um)	T mAX Iso/Prog	Bleed pA/AS	N/M	P/N
0.25	25	0.25	200/200	-/1.2	3600	QD7714
	25	0.25	200/200	-/1.2	3600	QD7724
0.32	25	0.25	200/200	-/1.2	2800	QD7744
		1.2	200/200	-/1.1	2350	QD7764
	50	1.2	200/200	-/1.2	2350	QD7774
0.53	25	1	200/200	-/1.1	1700	QD7613
		2	200/200	-/1.1	1300	QD7653

CP-Sil 2 CB Ultimetal

ID (mm)	Length (m)	Df (um)	T mAX Iso/Prog	Bleed pA/AS	N/M	P/N
0.53	25	1.2	200/200	-/1.1	1350	QD7102
	50	1.2	200/200	-/1.1	1350	QD7103

Hydrocarbons C₄ - C₁₁

Reformat

Technique : GC - capillary
 Column : CP-Sil 2 CB fused silica WCOT
 100 m x 0.25 mm; df = 0.25 um
 Cat. no. 7724 (2x coupled)
 Temperature : 40°C (8 min) - 200°C, 4°C/min
 Carrier gas : He, 300 kPa (3 bar, 42 psi)
 Injector : Splitter, 1 : 50
 T = 200°C
 Detector : MSD
 Transfer line 280°C
 Sample size : 1 ul
 Courtesy : D. Estel,
 Leuna Werke,
 Leuna, Germany

Peak identification:

7. 2,3-dimethylbutane
 8. 2-methylpentane
 10. 3-methylpentane
 11. n-hexane
 12. 2,2-dimethylpentane
 13. 2,4-dimethylpentane
 14. methylcyclopentane
 15. 2,2,3-trimethylbutane
 16. benzene
 17. 2,3-dimethylpentane
 18. 2-methylhexane
 19. cyclohexane
 20. 2,3-dimethylpentane
 21. 2-methylhexane
 + 1,1-dimethylcyclopentane

22. 1-cis-3-dimethylcyclopentane
 + 3-ethylpentane
 23. 1-trans-3-dimethylcyclopentane
 24. 1-trans-2-dimethylcyclopentane
 26. n-heptane
 28. unknown
 27. 1,1,3-trimethylcyclopentane
 28. 2,2-dimethylhexane
 29. 1-cis-2-dimethylcyclopentane
 methylcyclohexane
 + 2,5-dimethylhexane
 + 3,4-dimethylhexane
 30. ethylcyclopentane
 31. 3,3-dimethylhexane
 32. 1-trans-2-cis-4-trimethylcyclopentane

33. 1-trans-2-cis-3-trimethylcyclopentane
 unknown
 34. toluene
 35. 2,2-dimethylhexane
 37. 2-methyl-3-ethylpentane
 38. 2-methylheptane
 38. 4-methylheptane
 1,2,5-trimethylcyclopentane
 41. 3,4-dimethylhexane
 3-methylheptane
 42. 3-ethylhexane
 1-cis-2-cis-4-dimethylcyclopentane
 43. 3-ethylhexane
 1-cis-3-dimethylcyclohexane
 + 1-trans-4-dimethylcyclohexane
 44. 1-cis-3-dimethylcyclohexane
 + 1-cis-4-dimethylcyclohexane
 49. 1-cis-4-dimethylcyclohexane
 + 1-trans-3-dimethylcyclohexane

50. n-octane
 50-50. iso-C₁₀paraffins
 57. ethylcyclohexane
 58. unknown
 59. ethylbenzene
 60-61. iso-C₁₀paraffins
 62. 4-methyloctane
 62. 3-methylheptane
 64. m-xylene + p-xylene
 65. 3-cyclohexene
 66. 3-methylheptane
 67. cyclohexane
 68. n-morane
 69. isopropylbenzene
 70-71. iso-C₁₁paraffins

Application 903 - GC

