

Supporting information

Separation performance of *p*-tert-butyl(tetradecyloxy)calix[6]arene as stationary phase for capillary gas chromatography

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Table S1 Solutes and their descriptors for determining the system constants of the stationary phases by the Abraham solvation parameter model.

Probe solute	E	S	A	B	L
1-bromopentane	0.356	0.4	0	0.12	3.611
1-bromohexane	0.349	0.4	0	0.12	4.13
1-bromoheptane	0.343	0.4	0	0.12	4.663
1-hexanol	0.21	0.42	0.37	0.48	3.61
1-heptanol	0.211	0.42	0.37	0.48	4.115
2-heptanone	0.123	0.68	0	0.51	3.76
2-octanone	0.106	0.68	0	0.51	4.257
toluene	0.601	0.52	0	0.14	3.325
<i>n</i> -propylbenzene	0.604	0.5	0	0.15	4.23
<i>n</i> -butylbenzene	0.6	0.51	0	0.15	4.73
1,2-dichlorobenzene	0.872	0.78	0	0.04	4.518
1,2,3-trichlorobenzene	1.03	0.86	0	0	5.419
1,2,4-trichlorobenzene	0.98	0.81	0	0	5.248
1,3,5-trichlorobenzene	0.98	0.73	0	0	5.045
<i>n</i> -nonane	0	0	0	0	4.182
<i>n</i> -decane	0	0	0	0	4.686
<i>n</i> -undecane	0	0	0	0	5.191
mesitylene	0.649	0.52	0	0.19	4.344
methyl heptanoate	0.072	0.6	0	0.45	4.392
methyl octanoate	0.065	0.6	0	0.45	4.838
<i>p</i> -toluidine	0.923	0.95	0.23	0.45	4.452
<i>p</i> -chloroaniline	1.06	1.13	0.3	0.32	4.889
heptaldehyde	0.14	0.65	0	0.45	3.86
octanal	0.16	0.65	0	0.45	4.361
nonanal	0.15	0.65	0	0.45	4.856
<i>n</i> -dodecane	0	0	0	0	5.696
1-octanol	0.199	0.42	0.37	0.48	4.619
2-nonanone	0.119	0.68	0	0.51	4.735
benzaldehyde	0.82	1	0	0.39	4.008
1,3-dichlorobenzene	0.847	0.73	0	0.02	4.41
2,6-dimethylaniline	0.972	0.89	0.2	0.46	5.028