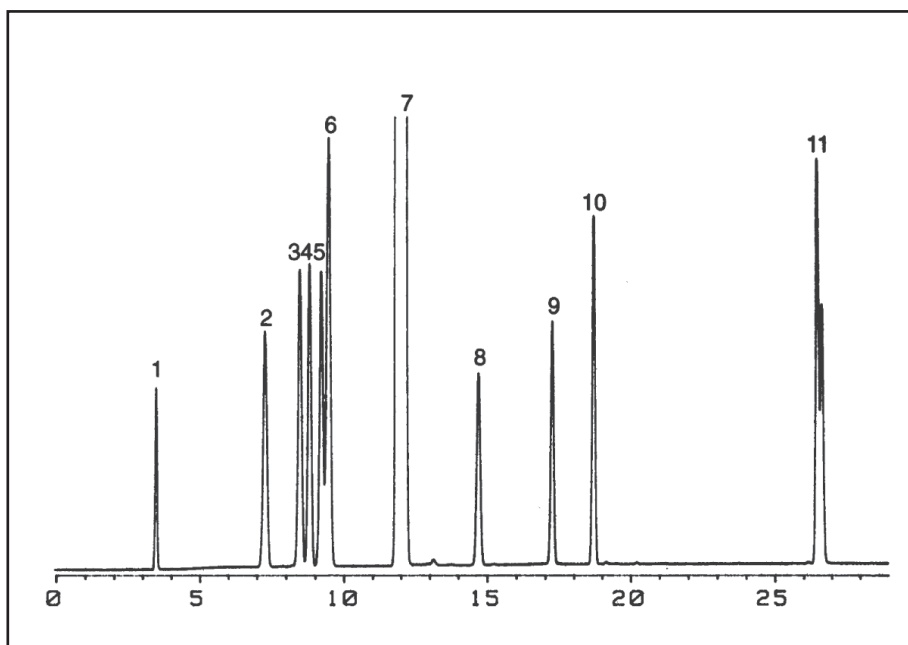


GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

ASTM D5441 - Impurities in MTBE

COLUMN: 007-1, Dimethylpolysiloxane
PHAT Phase™ 20M. x
0.18mm I.D. x 6.0µm film
Cat. No.: 007-1-20HS-6.0F
Temperature: 40°(3 min. hold)
(5°/min.) - 100° -
(12°/min) - 210°C
Flow: 12 psi, Helium
Injector: 225°C
Detector: 300°C, FID

1. methanol
2. 2-methylbutane
3. pentane
4. cis-2-pentene
5. trans-2-pentene
6. 2 methyl-2-butene
7. MTBE
8. t-butyl ethyl ether
9. t-amyl methyl ether
10. 2,2,4-trimethyl-1-pentene
11. cis/trans-2,2',4,6,6'-
pentamethyl-3-heptene



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

C1 to C5 Hydrocarbons

COLUMN: 007-1, Bonded
Dimethylpolysiloxane
PHAT Phase™ 30M. x 0.32mm
I.D. x 10.0µm film

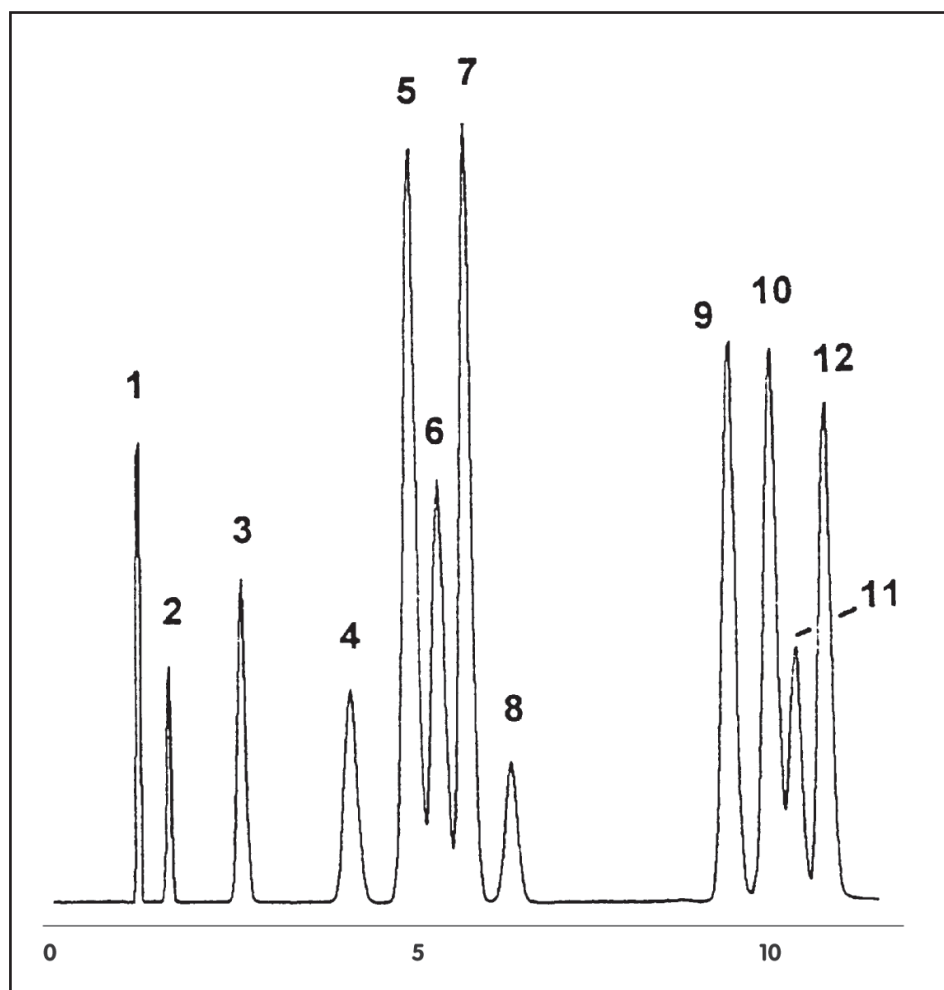
Cat. No.: 007-1-30W-10.0F

Temperature: 35° (3 min hold) (2°/min.) -
45° - (6°/min.) - 100°C

Injector: 150°C

Detector: 250°C, FID

1. methane
2. ethane
3. propane
4. isobutane
5. isobutylene & 1-butene
6. butane
7. trans-2-butene
8. cis-2-butene
9. 1-pentene
10. pentane
11. trans-2-pentene
12. cis-2-pentene



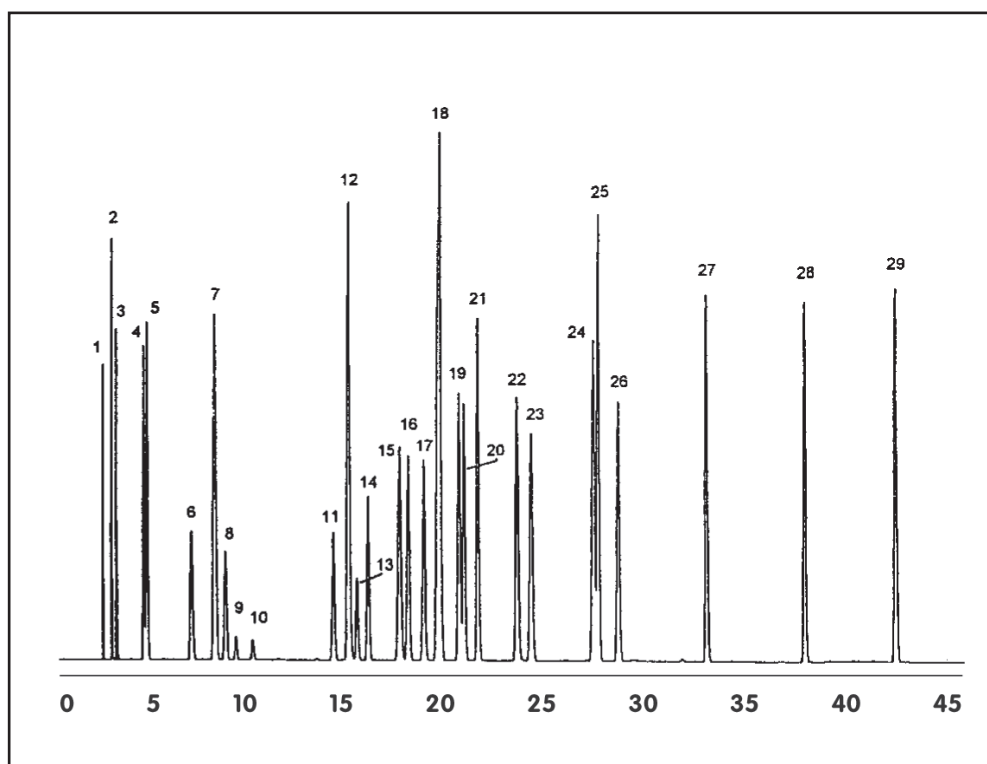
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

C1 to C10 Hydrocarbons

COLUMN: 007-1, Dimethylpolysiloxane
PHAT Phase™ 20M. x 0.18mm
I.D. x 6.0µm film
Cat. No.: 007-1-20HS-6.0F
Temperature: 35° (3 min. hold) (2°/min.) -
48° - (6°/min.) - 210°C, hold.
Injector: 200°C
Detector: 280°C, FID
Carrier: 19.0cm/sec., Helium

1. methane
2. ethylene
3. ethane
4. propylene
5. propane
6. isobutane
7. isobutylene & 1-butene
8. butane
9. trans-2-butene
10. cis-2-butene
11. 1-pentene
12. pentane
13. trans-2-pentene
14. cis-2-pentene
15. 2,2-dimethylbutane
16. 3-methyl-1,4-pentadiene
17. 4-methyl-1-pentene
18. 2,3-dimethylbutane
& 2-methylpentane
19. 3-methylpentane
20. 1-hexene
21. hexane
22. 2,4-dimethylpentane
23. 2,2,3-trimethylbutane
24. isooctane
(2,2,4-trimethylpentane)
25. heptane
26. 2,2,4-trimethyl-1-pentene
27. octane
28. nonane
29. decane



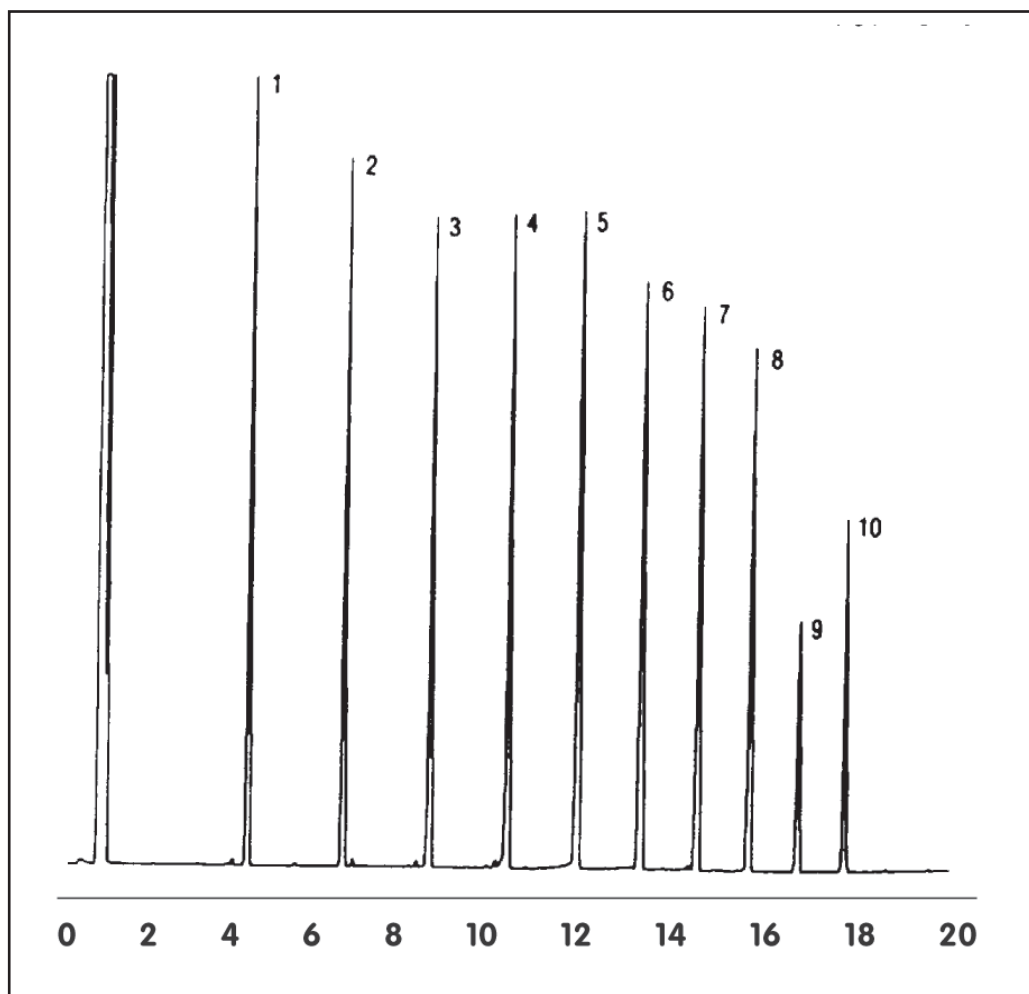
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Determination of Diesel Range Organics (DRO)

COLUMN: 007-1,
Dimethylpolysiloxane
10M. x 0.53mm I.D. x
1.0µm film
Cat. No.: 007-1-10V-1.0F
Temperature: 35° (15°/min.) - 320°C
Injector: 250°C
Detector: 320°C, FID
Carrier Gas: 10 ml/min., Helium

1. C10
2. C12
3. C14
4. C16
5. C18
6. C20
7. C22
8. C24
9. C26
10. C28



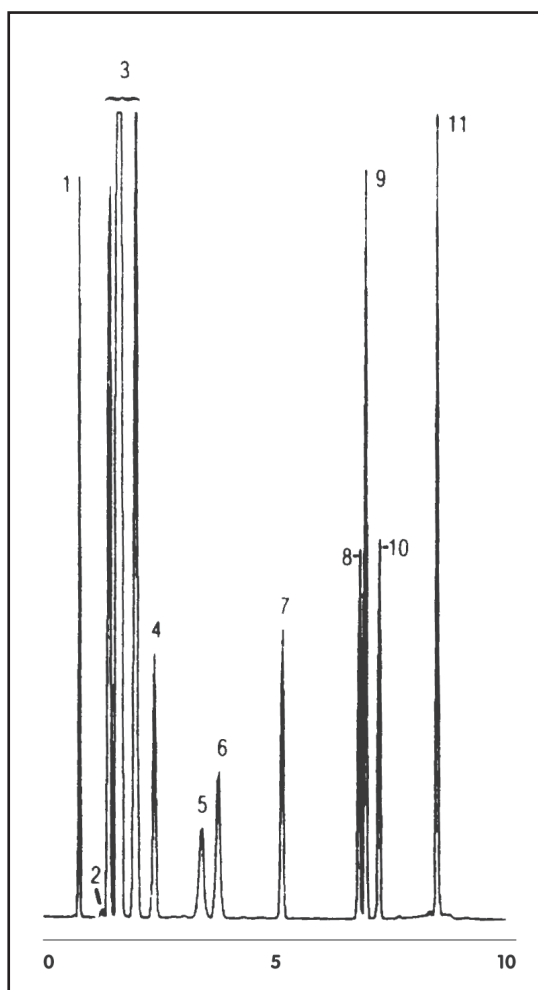
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Determination of Gasoline Range Organics (GRO)

COLUMN: 007-1,
Dimethylpolysiloxane
10M. x 0.53mm I.D. x
1.0µm film
Cat. No.: 007-1-10V-3.0F
Temperature: 35° (4 min. hold)
(20°/min.) - 320°C
Injector: 225°C
Detector: 320°C, FID
Carrier Gas: 10 ml/min., Helium

1. pentane
2. 2-methylpentane
3. hexanes
4. benzene
5. isooctane and
2,2,4-trimethylpentane
6. heptane
7. toluene
8. ethylbenzene
9. p-xylene and m-xylene
10. o-xylene
11. 1,2,4-trimethylbenzene



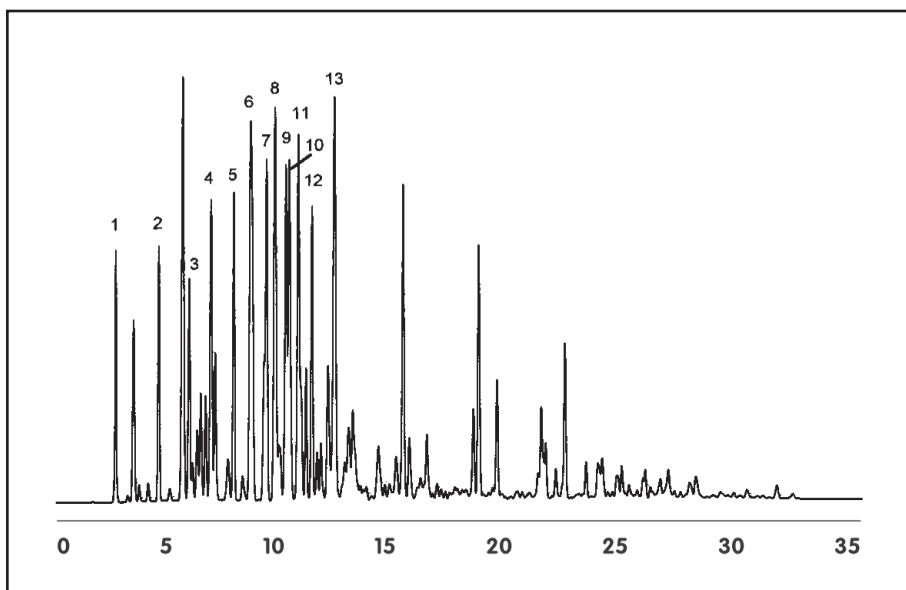
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Oxygenates in RF Gasoline

COLUMN: 007-1,
Dimethylpolysiloxane
20M. x 0.18mm I.D. x 6.0µm film
PHAT Phase™
Cat. No.: 007-1-20HS-6.0F
Temperature: 40° (3.5 min. hold) (10°/min.) -
85°C - (7°/min.) - 235°C
Injector: 220°C
Detector: 300°C, FID
Carrier Gas: 28 cm/sec, Helium

1. methanol
2. ethanol
3. isopropanol
4. t-butanol
5. n-propanol
6. MTBE
7. sec-butanol
8. diisopropyl ether (DIPE)
9. isobutanol
10. ETBE
11. t-amyl alcohol
12. butanol
13. t-amylmethyl ether (TAME)



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Oxygenates

COLUMN: 007-1,
Dimethylpolysiloxane
PHAT Phase™
20M. x 0.18mm I.D. x
6.0µm film

Cat. No.: 007-1-20HS-6.0F

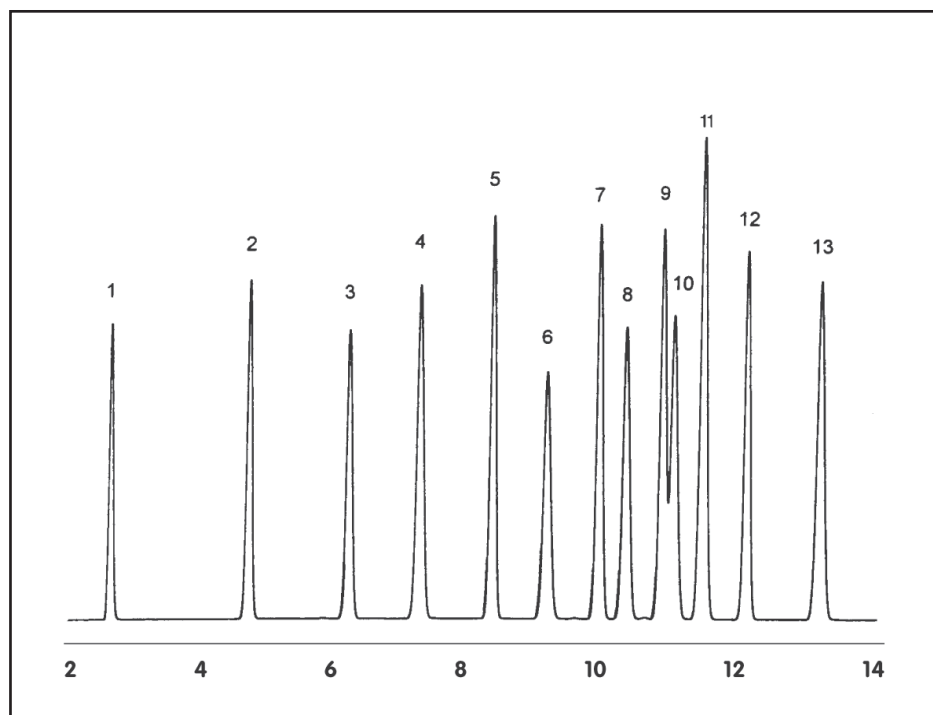
Temperature: 40° (3.5 min. hold)
(10°/min.) - 85°C -
(7°/min.) - 235°C

Injector: 220°C

Detector: 300°C, FID

Carrier Gas: 28 cm/sec, Helium

1. methanol
2. ethanol
3. isopropanol
4. t-butanol
5. n-propanol
6. MTBE
7. sec-butanol
8. diisopropyl ether (DIPE)
9. isobutanol
10. ETBE
11. t-amyl alcohol
12. butanol
13. t-amylmethyl ether (TAME)



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

P.I.A.N.O. Mix

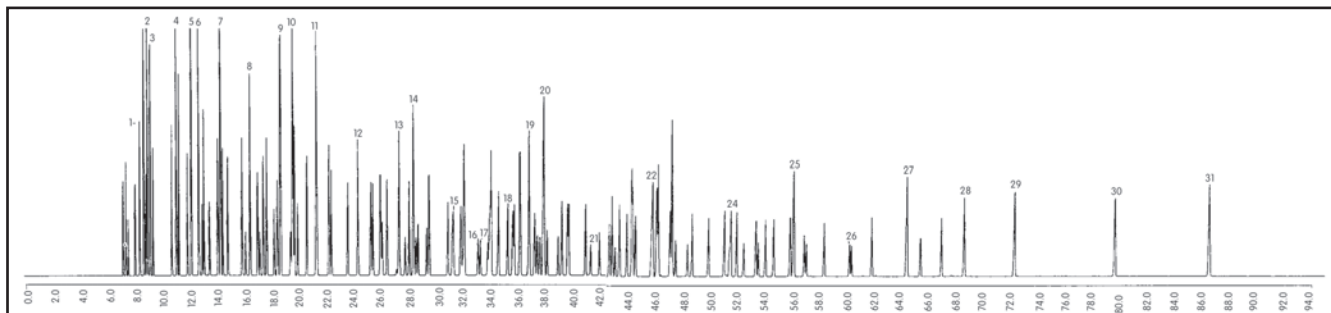
COLUMN: 007-1,
Dimethylpolysiloxane
100M. x 0.25mm I.D. x
0.5µm film
Cat. No.: 007-1-100-0.5F
Temperature: 35° (5.0 min. hold)
(2°/min.) - 200°C hold
Injector: 225°C
Detector: 225°C, FID
Carrier Gas: 26.9 cm/sec., Helium

1. isopentane
2. pentane
3. 2-methylpentane
4. 2,3-dimethylbutane
5. 1-hexene
6. hexane
7. methylcyclopentane
8. benzene

9. 1-heptene
10. heptane
11. methylcyclohexane
12. toluene
13. 1-octene
14. octane
15. ethylbenzene
16. m-xylene

17. p-xylene
18. o-xylene
19. 1-nonene
20. nonane
21. n-propylbenzene
22. 1-decene
23. decane
24. butylbenzene

25. undecane
26. pentylbenzene
27. dodecane
28. hexylbenzene
29. tridecane
30. tetradecane
31. pentadecane



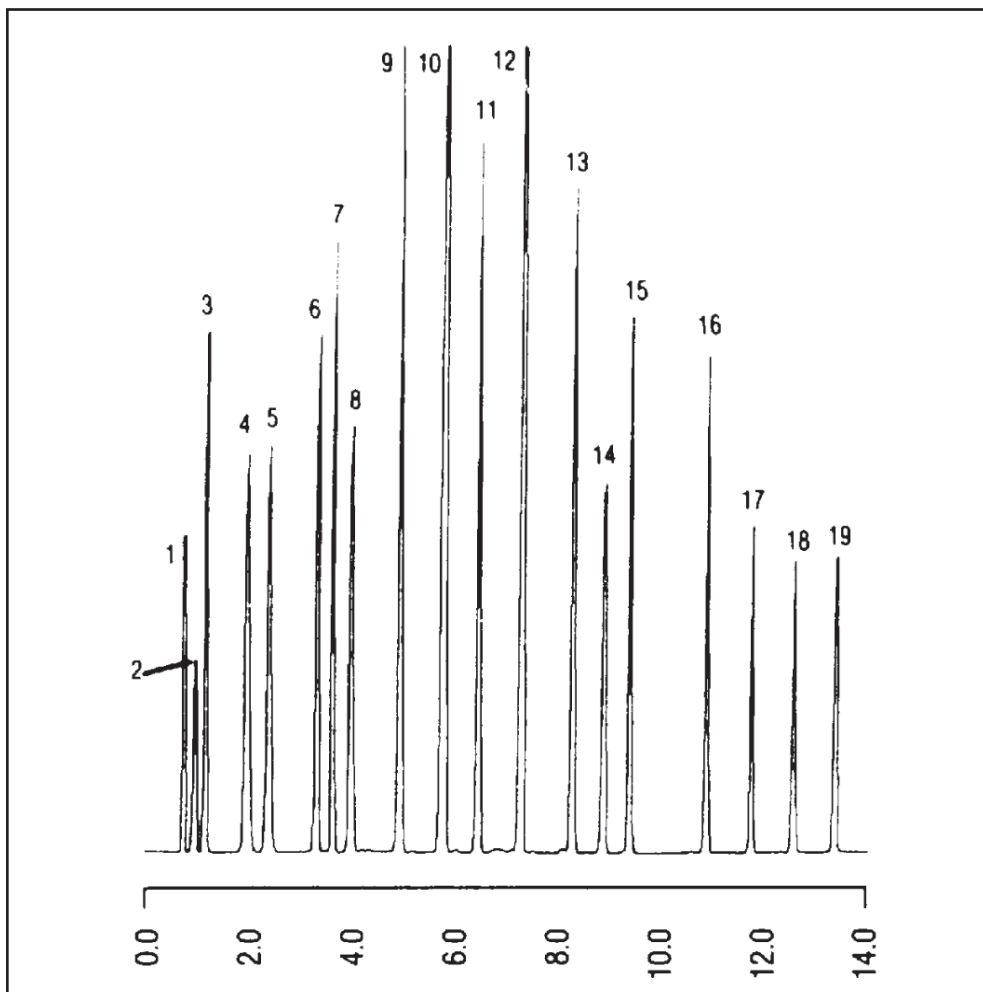
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Qualitative Calibration Mix - ASTM 3710

COLUMN: Qualitative Calibration
Mix - ASTM 3710
Cat. No.: 007-1-10V-5.0F
Temperature: 10° (1.8 min. hold)
(20°/min.) - 210°C hold
Injector: 180°C
Detector: 280°C, FID
Carrier Gas: 10 ml/min., Helium

1. propane
2. 2-methylpropane
3. butane
4. 2-methylbutane
5. pentane
6. 2-methylpentane
7. hexane
8. 2,4-dimethylpentane
9. heptane
10. toluene
11. octane
12. xylene
13. propylbenzene
14. decane
15. butylbenzene
16. dodecane
17. tridecane
18. tetradecane
19. pentadecane



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

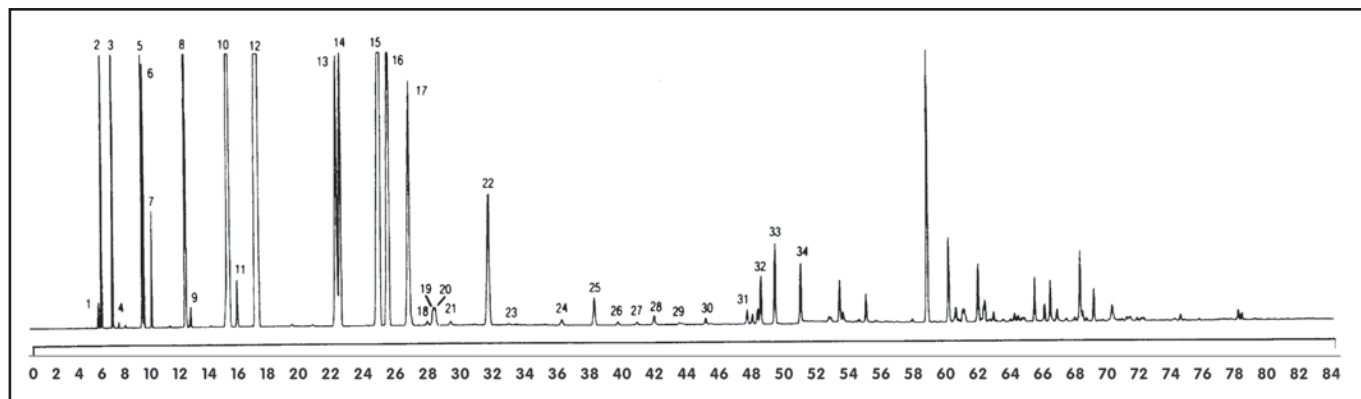
Reference Alkylate Standard

COLUMN: 007-1,
Dimethylpolysiloxane
50M. x 0.25mm I.D. x
0.5µm film
Cat. No.: 007-1-50-0.5F
Temperature: 35° (30.0 min. hold)
(2°/min.) - 200°C hold
Injector: 200°C
Detector: 250°C, FID
Carrier Gas: 20.3 cm/sec., Helium

1. isobutane
2. butane
3. isopentane
4. pentane
5. 2,3-dimethylbutane
6. 2-methylpentane
7. 3-methylpentane
8. 2,4-dimethylpentane
9. 2,2,3-trimethylbutane
10. 2,3-dimethylpentane
11. 3-methylhexane
12. 2,2,4-trimethylpentane
13. 2,5-dimethylhexane and 2,2,3-

trimethylpentane
14. 2,4-dimethylhexane
15. 2,3,4-trimethylpentane
16. 2,3,3-trimethylpentane
17. 2,3-dimethylhexane
18. 2-methylheptane
19. 4-methylheptane and 3,4-
dimethylhexane
20. 3,4-dimethylhexane
21. 3-methylheptane
22. 2,2,5-trimethylhexane
23. 2,2,4-trimethylhexane
24. 2,4,4-trimethylhexane

25. 2,3,5-trimethylhexane
26. 2,4-dimethylheptane
27. 2,6-dimethylheptane
28. 2,5-dimethylheptane
29. 2,3,4-trimethylhexane
30. 2,3-dimethylheptane
31. 2,4,6-trimethylhexane
32. unidentified trimethylhexane
33. unidentified trimethylhexane
34. unidentified trimethylhexane
stereoisomers



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Reference Naphtha Standard

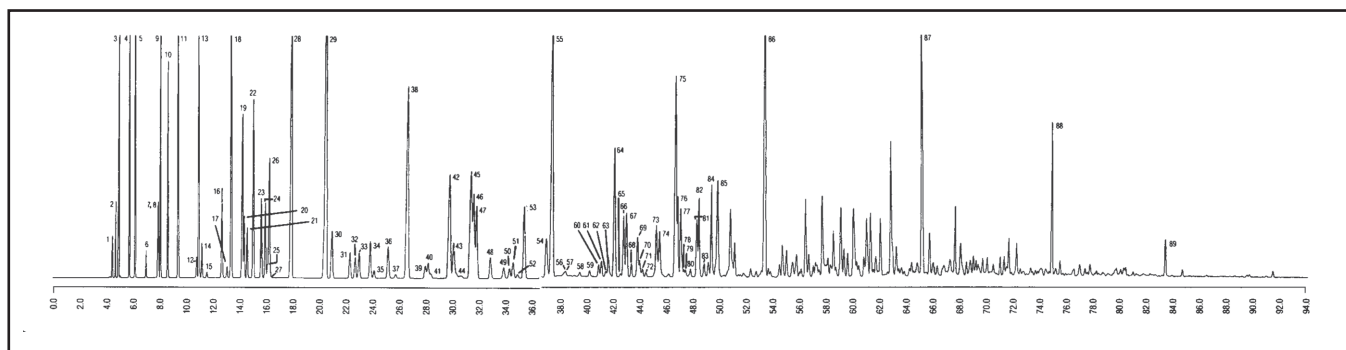
COLUMN: 007-1,
Dimethylpolysiloxane
50M. x 0.25mm I.D. x
0.5µm film
Cat. No.: 007-1-50-0.5F
Temperature: 35° (30.0 min. hold)
(2°/min.) - 200°C hold
Injector: 200°C
Detector: 250°C, FID
Carrier Gas: 19.8 cm/sec., Helium

1. propane
2. isobutane
3. n-butane
4. isopentane
5. n-pentane
6. 2,2-dimethylbutane
7. cyclopentane
8. 2,3-dimethylbutane
9. 2-methylpentane
10. 3-methylpentane
11. n-hexane
12. 2,2-dimethylpentane
13. methylcyclopentane
14. 2,4-dimethylpentane
15. 2,2,3-trimethylbutane
16. benzene
17. 3,3-dimethylpentane
18. cyclohexane
19. 2-methylhexane
20. 2,3-dimethylpentane
21. 1,1-dimethylcyclopentane
22. 3-methylhexane
23. cis-1,3-dimethylcyclopentane
24. trans-1,3-dimethylcyclopentane
25. 3-ethylpentane
26. trans-1,2-dimethylcyclopentane
27. 2,2,4-trimethylpentane

28. n-heptane
29. methylcyclohexane and
cis-1,2-dimethylcyclopentane
30. 1,1,3-trimethylcyclopentane
and 2,2-dimethylhexane
31. ethylcyclopentane
32. 2,5-dimethylhexane
and 2,2,3-trimethylpentane
33. 2,4-dimethylhexane
34. 1-trans-2-cis-4-trimethylcyclopentane
35. 3,3-dimethylhexane
36. 1-trans-2-cis-3-trimethylcyclopentane
37. 2,3,4-trimethylpentane
38. toluene and 2,3,3-trimethylpentane
39. 1,1,2-trimethylcyclopentane
40. 2,3-dimethylhexane
41. 2-methyl-3-ethylpentane
42. 2-methylheptane
43. 4-methylheptane and
3-methyl-3-ethylpentane
44. 3,4-dimethylhexane
45. cis-1,3-dimethylcyclohexane
46. 3-methylheptane and
1-cis-2-trans-3-trimethylcyclopentane
47. 3-ethylhexane and
trans-1,4-dimethylcyclohexane
48. 1,1-dimethylcyclohexane

49. trans-1,3-ethylmethylcyclopentane and
2,2,5-trimethylhexane
50. cis-1,3-ethylmethylcyclopentane
51. trans-1,2-ethylmethylcyclopentane
52. 1,1-ethylmethylcyclopentane
and 2,2,4-trimethylhexane
53. trans-1,2-dimethylcyclohexane
54. trans-1,3-dimethylcyclohexane
and cis-1,4-dimethylcyclohexane
55. n-octane
56. isopropylcyclopentane and
2,4,4-trimethylhexane
57. unidentified C9 naphthene
58. unidentified C9 naphthene
59. cis-1,2-ethylmethylcyclopentane
and 2,3,5-trimethylhexane
60. 2,2-dimethylheptane
61. cis-1,2-dimethylcyclohexane
62. 2,4-dimethylheptane
63. 4,4-dimethylheptane
64. ethylcyclohexane and
n-propylcyclopentane
65. 2-methyl-4-ethylhexane
66. 2,6-dimethylheptane
67. 1,1,3-trimethylcyclohexane
68. unidentified C9 naphthene
69. 2,5-dimethylheptane

70. 3,3-dimethylheptane and
3,5-dimethylheptane
71. unidentified C9 naphthene
72. unidentified C9 naphthene
73. ethylbenzene
74. unidentified C9 naphthene
75. m-xylene
76. p-xylene
77. 2,3-dimethylheptane
78. 3,4-dimethylheptane
79. 3,4-dimethylheptane
80. 4-ethylheptane
85. o-xylene
86. n-nonane
87. n-decane
88. n-undecane
89. n-dodecane
stereoisomers



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Reference Reformat Standard

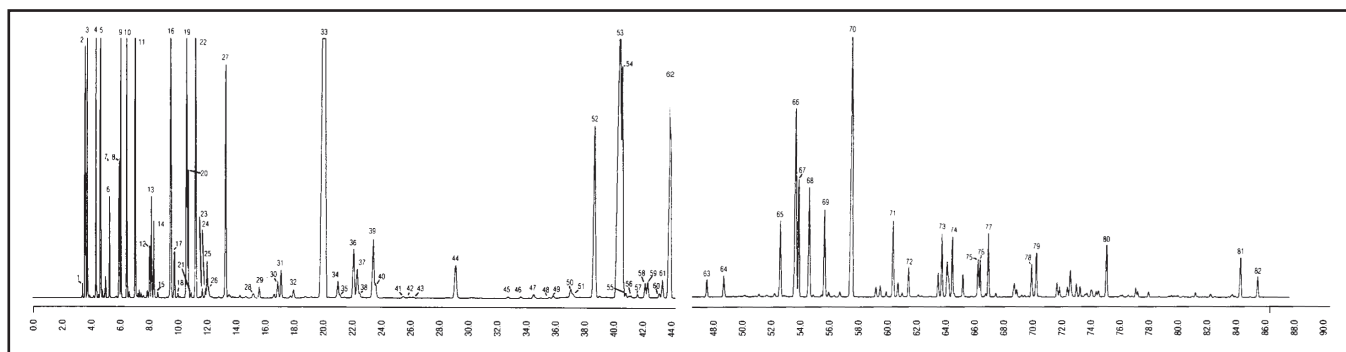
COLUMN: 007-1, Bonded
Dimethylpolysiloxane
50M. x 0.25mm I.D. x 0.5µm film
Cat. No.: 007-1-50-0.5F
Temperature: 35° (30.0 min. hold)
(2°/min.) - 200°C hold
Injector: 200°C
Detector: 250°C, FID
Carrier Gas: 25.6 cm/sec., Helium

1. propane
2. isobutane
3. n-butane
4. isopentane
5. n-pentane
6. 2,2-dimethylbutane
7. cyclopentane
8. 2,3-dimethylbutane
9. 2-methylpentane
10. 3-methylpentane
11. n-hexane
12. 2,2-dimethylpentane
13. methylcyclopentane
14. 2,4-dimethylpentane
15. 2,2,3-trimethylbutane
16. benzene
17. 3,3-dimethylpentane
18. cyclohexane
19. 2-methylhexane
20. 2,3-dimethylpentane
21. 1,1-dimethylcyclopentane
22. 3-methylhexane
23. cis-1,3-dimethylcyclopentane
24. trans-1,3-dimethylcyclopentane

25. 3-ethylpentane
26. trans-1,2-dimethylcyclopentane
27. n-heptane
28. 2,2-dimethylhexane
29. ethylcyclopentane
30. 2,5-dimethylhexane and
2,2,3-trimethylpentane
31. 2,4-dimethylhexane
32. 3,3-dimethylhexane
33. toluene
34. 2,3-dimethylhexane
35. 2-methyl-3-ethylpentane
36. 2-methylheptane
37. 4-methylheptane and
3-methyl-3-ethylpentane
38. 3,4-dimethylhexane
39. 3-methylheptane
40. 3-ethylhexane
41. trans-1,3-ethylmethylcyclopentane
and 2,2,5-
trimethylhexane
42. cis-1,3-
ethylmethylcyclopentane
43. trans-1,2-ethylmethyl

cyclopentane
44. n-octane
45. cis-1,2-ethylmethylcyclopentane and
2,3,5-trimethylhexane
46. 2,2-dimethylheptane
47. 2,4-dimethylheptane
48. 2-methyl-4-ethylhexane
49. 2,6-dimethylheptane
50. 2,5-dimethylheptane
51. 3,3-dimethylheptane
and 3,5-dimethylheptane
52. ethylbenzene
53. m-xylene
54. p-xylene
55. 2,3-dimethylheptane
56. 3,4-dimethylheptane
57. 4-ethylheptane
58. 4-methyloctane
59. 2-methyloctane
60. 3-ethylheptane
61. 3-methyloctane
62. o-xylene
63. n-nonane
64. isopropylbenzene

65. propylbenzene
66. 1-methyl-3-ethylbenzene
67. 1-methyl-4-ethylbenzene
68. 1,3,5-trimethylbenzene
69. 1-methyl-2-ethylbenzene
70. 1,2,4-trimethylbenzene
71. 1,2,3-trimethylbenzene
72. indane
73. 1,3-diethylbenzene
74. butylbenzene
75. 1,4-dimethyl-2-ethylbenzene
76. 1,3-dimethyl-4-ethylbenzene
77. 1,2-dimethyl-4-ethylbenzene
78. 1,2,4,5-tetramethylbenzene
79. 1,2,3,5-tetramethylbenzene
80. naphthalene
81. 2-methylnaphthalene
82. 1-methylnaphthalene



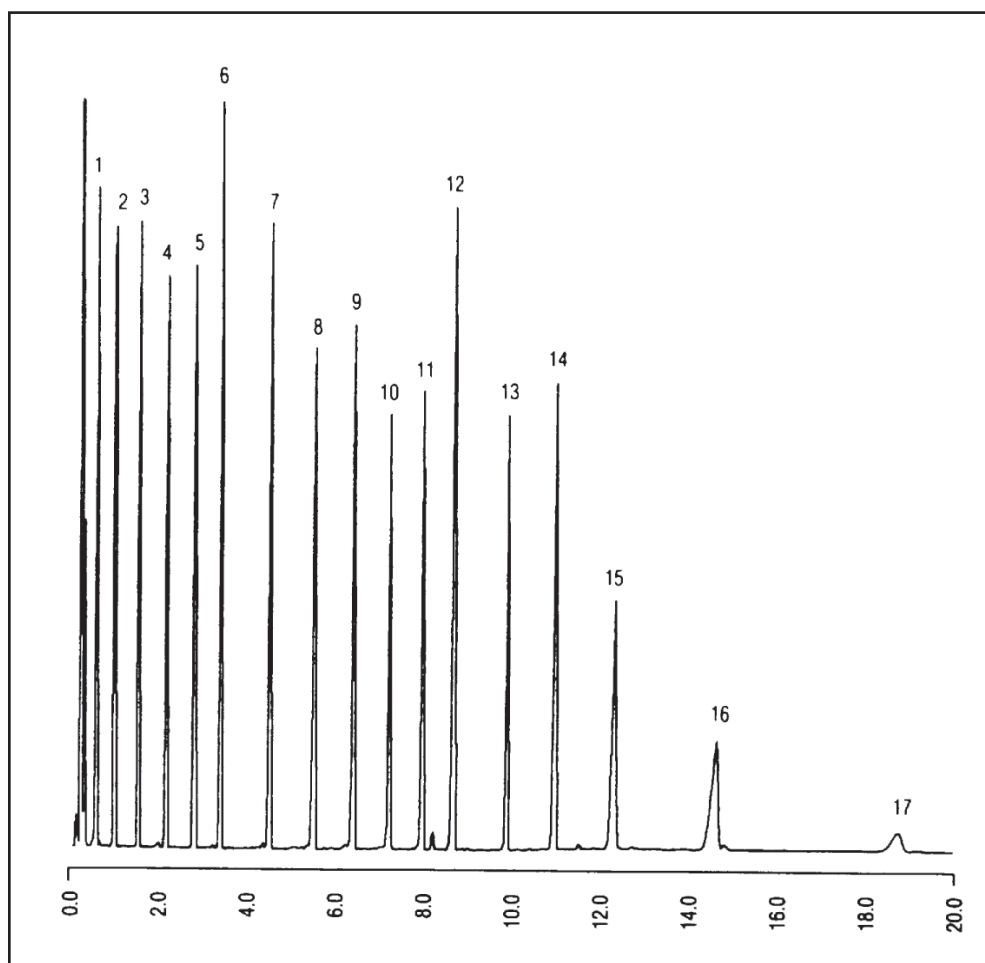
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Sim Dis - ASTM 2887

COLUMN: 007-1,
Dimethylpolysiloxane
10M. x 0.53mm I.D. X
1.0µm film
Cat. No.: 007-1-10V-1.0F
Temperature: 35° (25°/min.) - 320°C
Injector: 350°C
Detector: 350°C, FID
Carrier Gas: 20 ml/min., Helium

1. C6
2. C7
3. C8
4. C9
5. C10
6. C11
7. C12
8. C14
9. C16
10. C18
12. C24
11. C20
13. C28
14. C32
15. C36
16. C40
17. C44



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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Super Unleaded Gasoline

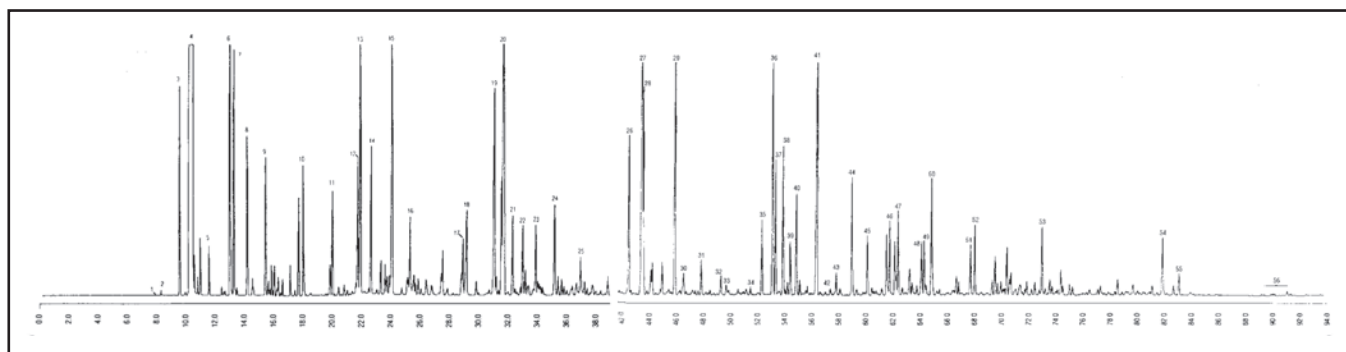
COLUMN: 007-1,
Dimethylpolysiloxane
100M. x 0.25mm I.D. x
0.5µm film
Cat. No.: 007-1-100-0.5F
Temperature: 35° (15.0 min. hold)
(2°/min.) - 200°C hold
Injector: 200°C
Detector: 225°C, FID
Carrier Gas: 22.8 cm/sec., Helium

1. isobutane
2. butane
3. isopentane
4. pentane
5. 2,2-dimethylbutane
6. 2,3-dimethylbutane
7. 2-methylpentane
8. 3-methylpentane
9. hexane
10. 2,4-dimethylpentane
11. benzene
12. 2,3-dimethylpentane
13. 2-methylhexane
14. 3-methylhexane

15. 2,2,4-trimethylpentane
16. heptane
17. 2,5-dimethylhexane
18. 2,4-dimethylhexane
19. 2,3,4-trimethylpentane
20. toluene
21. 2,3-dimethylhexane
22. 2-methylheptane
23. 3-methylheptane
24. 2-methyl-1-heptane
25. octane
26. ethylbenzene
27. m-xylene
28. p-xylene

29. o-xylene
30. 1-nonene
31. nonane
32. isopropylbenzene
33. 3,3,5-trimethylheptane
34. 2,4,5-trimethylheptane
35. propylbenzene
36. 1-methyl-3-ethylbenzene
37. 1-methyl-4-ethylbenzene
38. 1,3,5-trimethylbenzene
39. 3,3,4-trimethylheptane
40. 1-methyl-2-ethylbenzene
41. 1,2,4-trimethylbenzene
42. isobutylbenzene

43. sec-butylbenzene
44. 1,2,3-trimethylbenzene
45. indane
46. 1,3-diethylbenzene
47. butylbenzene
48. 1,4-dimethyl-2-ethylbenzene
49. 1,3-dimethyl-4-ethylbenzene
50. 1,2-dimethyl-4-ethylbenzene
51. 1,2,4,5-tetramethylbenzene
52. 1,2,3,5-tetramethylbenzene
53. naphthalene
54. 2-methylnaphthalene
55. 1-methylnaphthalene
56. dimethylnaphthalenes



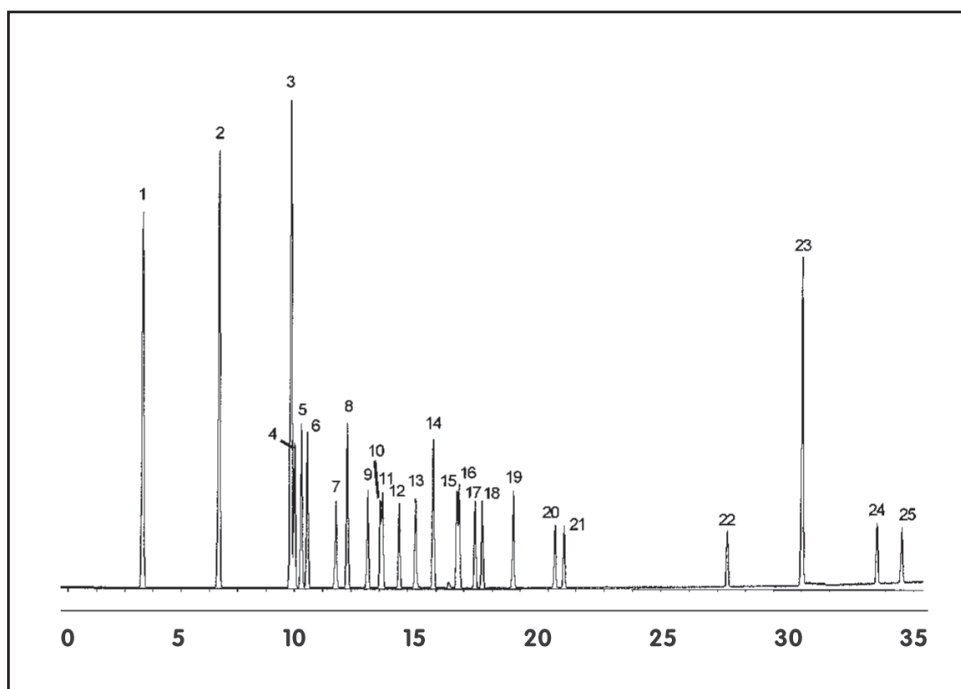
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Aromatics in RF Gasoline

COLUMN: 007-CW, Bonded
Carbowax
30M. x 0.25mm I.D. x
1.0µm film
Cat. No.: 007-CW-30-1.0F
Temperature: 40° (2.0 min. hold)
(5°/min.) - 240°C
Injector: 220°C
Detector: MSD
Carrier Gas: 28 cm/sec, Helium

1. benzene & benzene d6
2. toluene
3. ethylbenzene d10
4. ethyl benzene
5. o-xylene
6. p-xylene
7. isopropylbenzene (cumene)
8. m-xylene
9. propylbenzene
10. 1-methyl-3-ethylbenzene
11. 1-methyl-2-ethylbenzene
12. 1,3,5-trimethylbenzene
13. 1-methyl-4-ethylbenzene
14. 1,2,4-trimethylbenzene
15. 1,4-diethylbenzene
16. butylbenzene
17. 1,2-diethylbenzene
18. 1,2,3-trimethylbenzene
19. indan
20. 1,2,4,5-tetramethylbenzene
21. 1,2,3,5-tetramethylbenzene
22. pentamethylbenzene
23. naphthalene & naphthalene d8
24. 2-methylnaphthalene
25. 1-methylnaphthalene



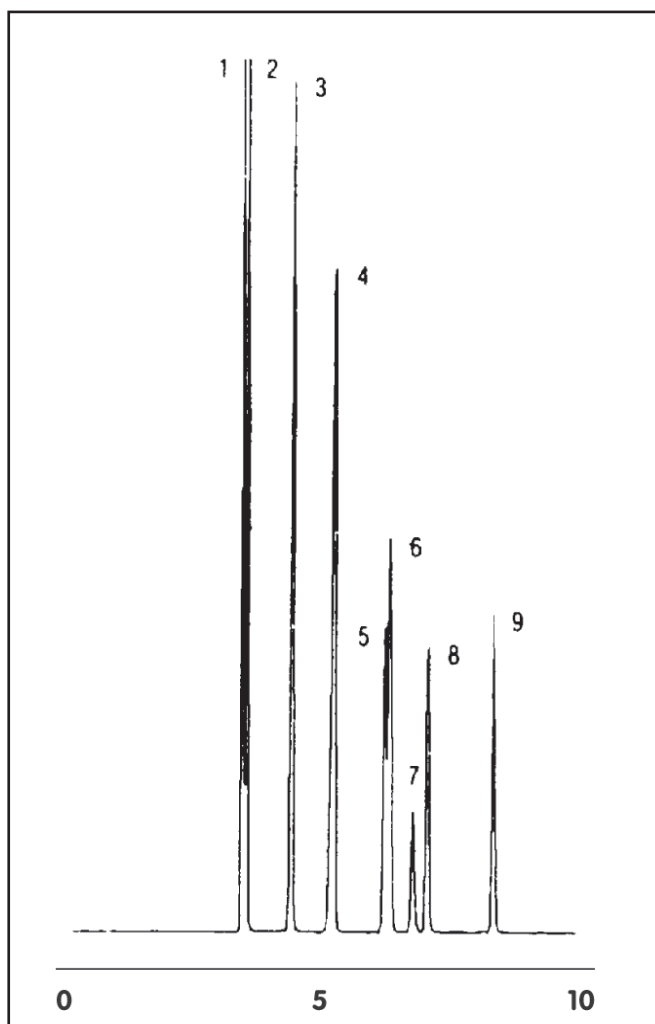
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Aromatics in Light Naphtha and Aviation Gasolines - ASTM 2267

COLUMN: 007-23, Cyanopropyl
Methylpolysiloxane 60M. x
0.25mm I.D. x 0.25µm film
Cat. No.: 007-23-60-0.25F
Temperature: 60° (3.0 min. hold)
(10°/min.) - 260°C
Injector: 250°C
Detector: 300°C, FID
Carrier Gas: 25.3 cm/sec., Helium

1. decane
2. benzene
3. undecane
4. toluene
5. cumene
6. m-xylene and ethylbenzene
7. p-xylene
8. o-xylene
9. 1,2,4-trimethylbenzene



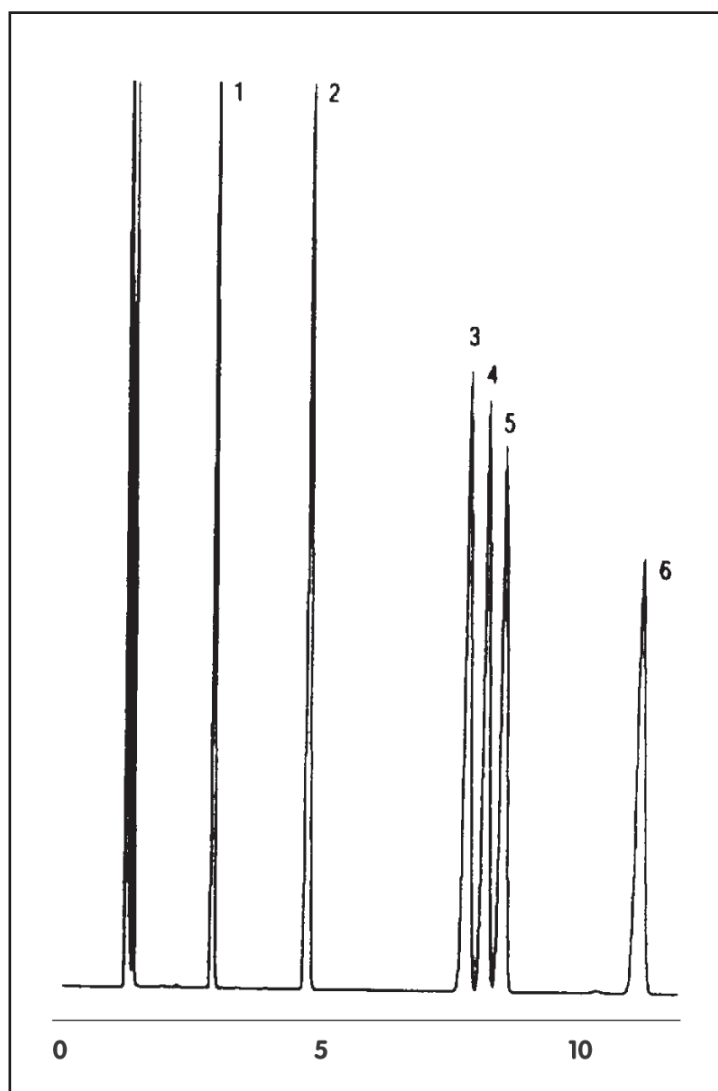
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

BTEX - Benzenes, Toluene, Xylenes

COLUMN: 007-CW, Bonded Carbowax
30M. x 0.53mm I.D. x 1.0µm film
Cat. No.: 007-CW-30V-1.0F
Temperature: 50°C isothermal
Injector: 250°C
Detector: 250°C, FID
Carrier Gas: 40.0 cm/sec., Helium

1. benzene
2. toluene
3. ethylbenzene
4. p-xylene
5. m-xylene
6. o-xylene



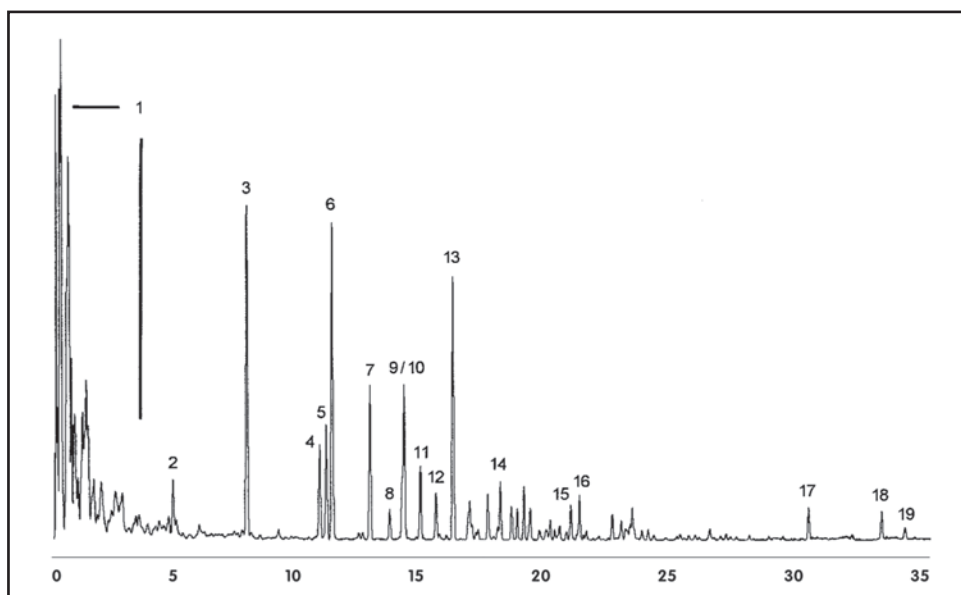
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GC CAPILLARY COLUMN APPLICATIONS: PETROCHEMICAL

Reformulated (RF) Gasoline

COLUMN: 007-CW, Bonded
Carbowax
30M. x 0.25mm I.D. x
1.0µm film
Cat. No.: 007-CW-30-1.0F
Temperature: 40° (2.0 min. hold)
(5°/min.) - 240°C
Injector: 220°C
Detector: MSD
Carrier Gas: 28 cm/sec, Helium

1. aliphatic fraction
2. benzene
3. toluene
4. ethyl benzene
5. o-xylene
6. p-xylene
7. m-xylene
8. propyl benzene
9. 1-methyl-3-ethylbenzene
10. 1-methyl-2-ethylbenzene
11. 1,3,5-trimethylbenzene
12. 1-methyl-4-ethylbenzene
13. 1,2,4-trimethylbenzene
14. butylbenzene
15. 1,2,4,5-tetramethylbenzene
16. 1,2,3,5-tetramethylbenzene
17. naphthalene
18. 2-methylnaphthalene
19. 1-methylnaphthalene



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