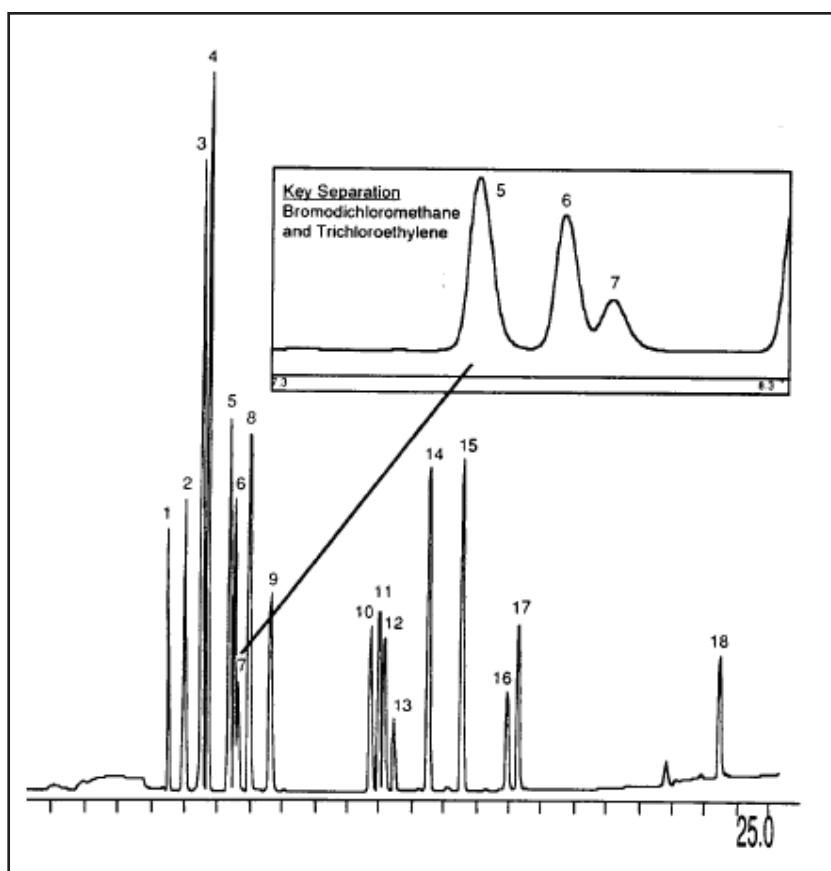


GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 551 Chlorination Disinfection Byproducts in Drinking Water

COLUMN: 007-1,
Dimethylpolysiloxane
30M. x 0.32mm I.D. x
0.5µm film
Cat. No.: 007-1-30W-0.5F
Temperature: 35° (10 min. hold)
(6°/min.) - 150°C
(4 min. hold)
Injector: 220°C
Detector: 300°C, ECD
Carrier Gas: 1ml/min, Helium
Injection: 2µL of 1ppb extract

1. chloroform
2. 1,1,1-trichloroethane
3. carbon tetrachloride
4. trichloroacetonitrile
5. dichloroacetonitrile
6. bromodichloromethane
7. trichloroethylene
8. chloral hydrate
9. 1,1-dichloropropanone-2
10. chloropicrin
11. dibromochloromethane
12. bromochloroacetonitrile
13. 1,2-dibromoethane (EDB)
14. tetrachloroethylene
15. 1,1,1-tetrachloropropanone
16. bromoform
17. dibromoacetonitrile
18. 1,2-dibromo-3-chloropropane (DBCP)



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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 502.2 Drinking Water

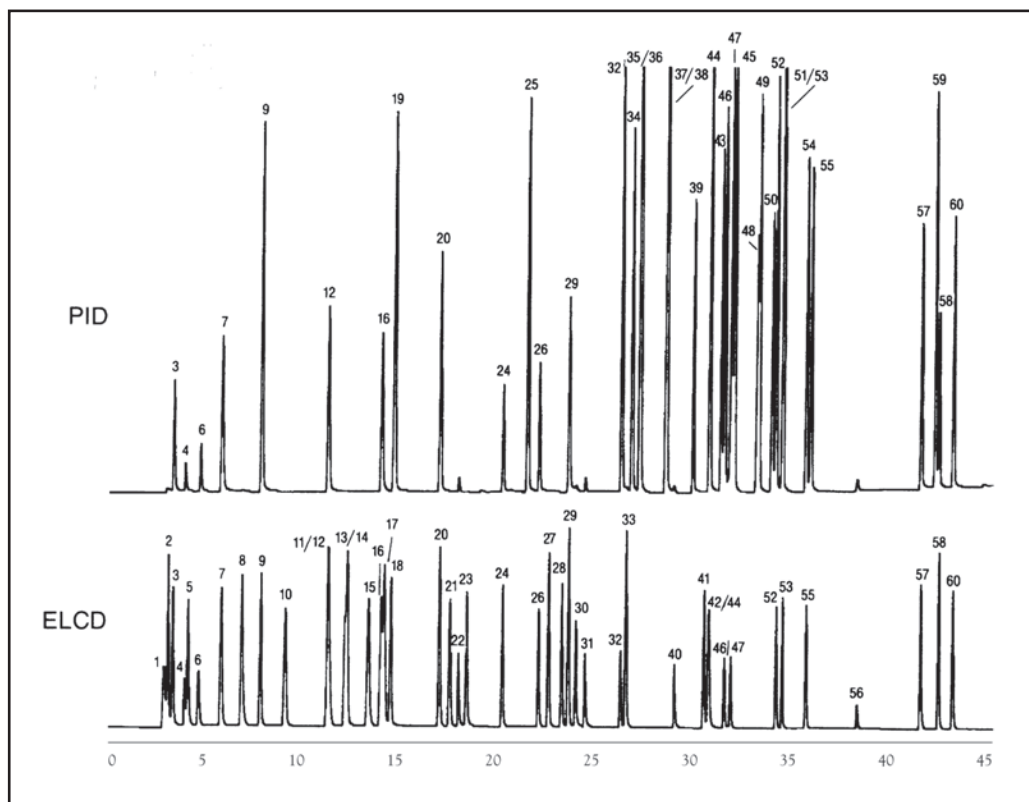
COLUMN: 007-502, Cyanopropyl Phenyl
Methylpolysiloxane
75M. x 0.53mm I.D. x 2.5µm film
Cat. No.: 007-502-75V-2.5F
Temperature: 35° (10 min. hold) (4°/min.) -
280°C (5 min. hold)
Carrier Gas: 10 ml/min., Helium
Purge: 11 min.
Trap Sampling: Tenax/Silica/Charcoal Trap

1. dichlorofluoromethane
2. chloromethane
3. vinyl chloride
4. bromomethane
5. chloroethane
6. trichlorofluoromethane
7. 1,1-dichloroethylene
8. methylene chloride
9. trans 1,2-dichloroethylene
10. 1,1-dichloroethane
11. 2,2-dichloropropane
12. cis 1,2-dichloroethylene
13. bromochloromethane
14. chloroform
15. 1,1,1-trichloroethane
16. 1,1-dichloropropane
17. carbon tetrachloride
18. 1,2-dichloroethane
19. benzene
20. trichloroethylene
21. 1,2-dichloropropane
22. dibromomethane
23. bromodichloromethane
24. cis-1,3-dichloropropene
25. toluene
26. trans 1,3-dichloropropene
27. 1,1,2-trichloroethane
28. 1,3-dichloropropane
29. tetrachloroethylene
30. dibromochloromethane
31. ethylene dibromide
32. chlorobenzene
33. 1,1,1,2-tetrachloroethane
34. ethylbenzene
35. m-xylene
36. p-xylene
37. styrene
38. o-xylene
39. isopropylbenzene

40. bromoform
41. 1,1,2,2-tetrachloroethane
42. 1,2,3-trichloropropane
43. bromobenzene
44. propylbenzene
45. 2-chlorotoluene
46. 4-chlorotoluene

47. 1,3,5-trimethylbenzene
48. tert-butylbenzene
49. 1,2,4-trimethylbenzene
50. sec-butylbenzene
51. p-isopropyltoluene
52. 1,3-dichlorobenzene
53. 1,4-dichlorobenzene
54. butylbenzene

55. 1,2-dichlorobenzene
56. 1,2-dibromo-3-chloropropane
57. 1,2,4-trichlorobenzene
58. naphthalene
59. hexachlorobutadiene
60. 1,2,3-trichlorobenzene



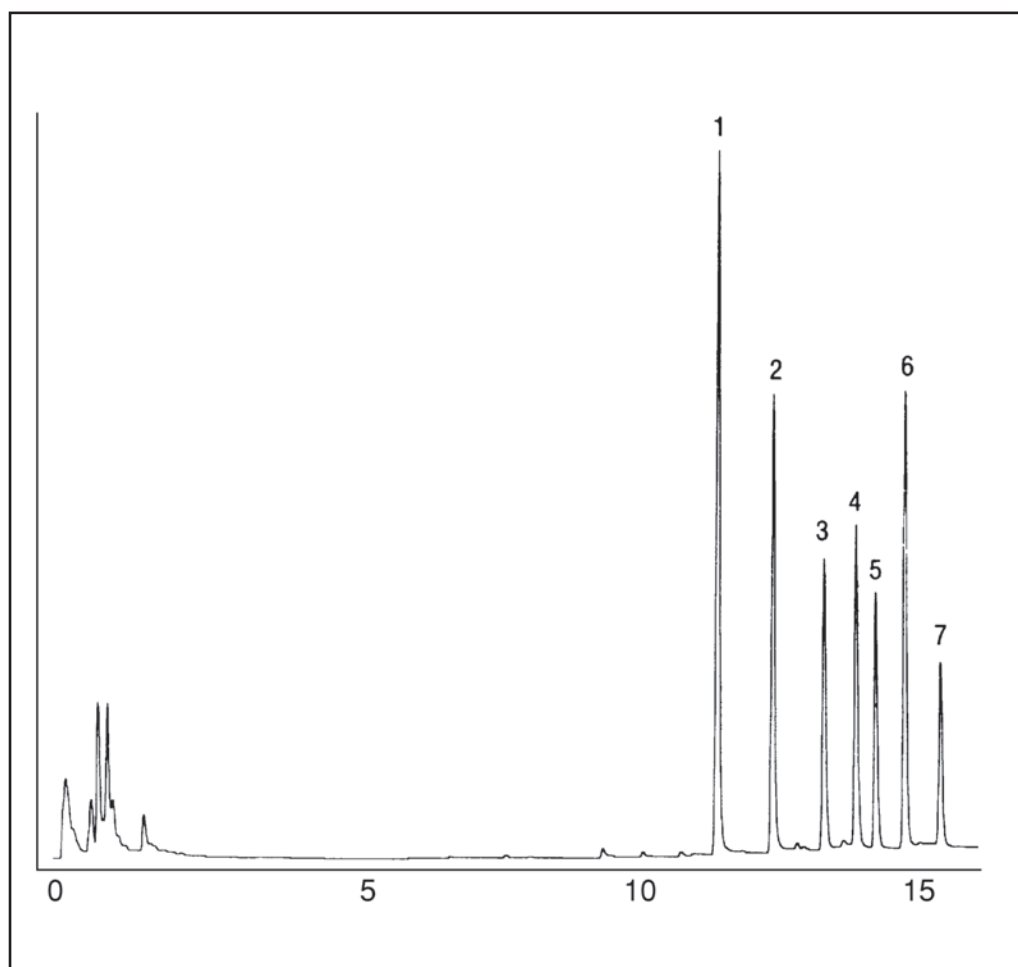
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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

DDT Isomers

COLUMN: 007-608,
Cyanopropyl Phenyl
Methylpolysiloxane
30M. x 0.53mm I.D. x
0.8µm film
Cat. No.: 007-608-30V-0.8F
Temperature: 140° (6°/min.) -260°C
Injector: 240°C
Detector: 300°C , ECD
Carrier Gas: 5 ml/min., Helium

1. o,p'-DDE
2. p,p'-DDE
3. o,p'-DDD
4. m,p'-DDD
5. p,p'-DDD
6. o,p'-DDT
7. p,p'-DDT



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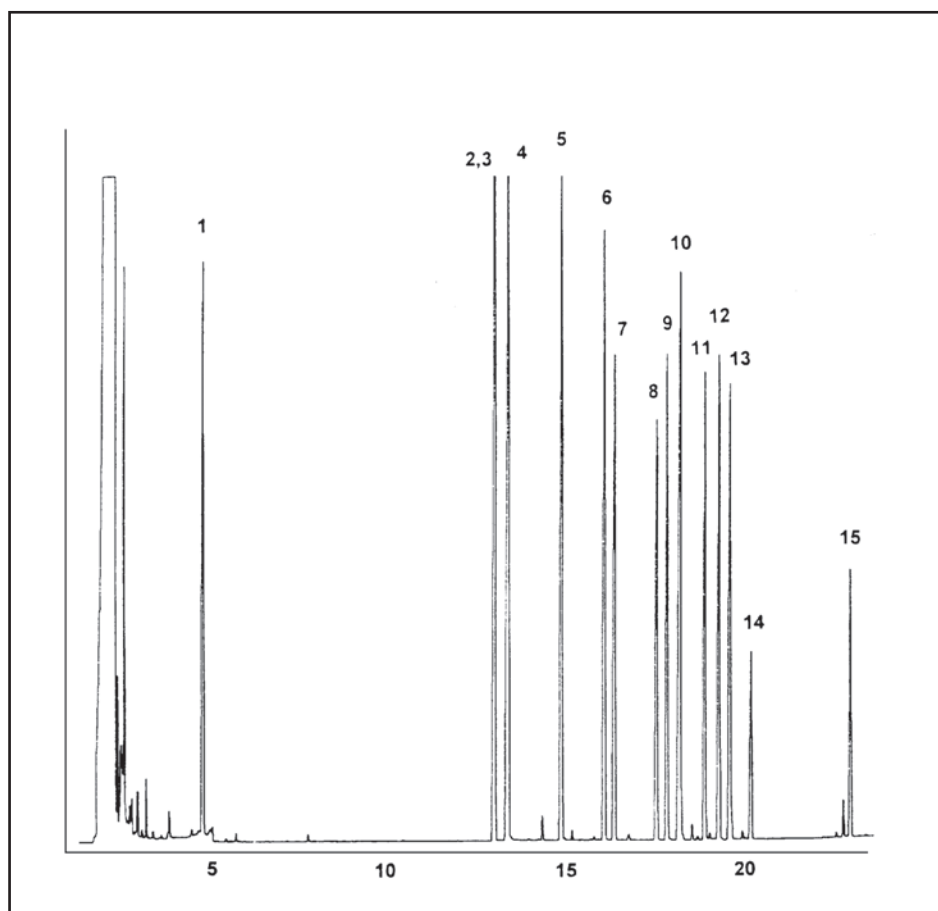
GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 515

Herbicides

COLUMN: 007-1301,
6% Cyanopropyl Phenyl
Methylpolysiloxane
30M. x 0.25mm I.D. x
0.5µm film
Cat. No.: 007-1301-30-0.5F
Temperature: 60° (10°/min.) - 300°C
Injector: 230°C
Detector: 310°C, ECD
Carrier Gas: 32 cm/sec., Helium

1. dalapon
2. dichlorobenzoic acid
3. nitrophenol
4. dicamba
5. dichloroprop
6. 2,4 - D
7. picloram
8. bentazon
9. chloramben
10. pentachlorophenol
11. 2,4 - DB
12. 2,4,5 - T
13. dinoseb
14. 2,4,5 - TP
15. acifluorfen



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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 524.2

Drinking Water

COLUMN: 007-624,
Cyanopropyl Phenyl
Methylpolysiloxane
30M. x 0.25mm I.D. x 2.0µm film

Cat. No.: 007-624-30-2.0F

Temperature: 35° (2 min. hold)
(6°/min.) - 150° -
(2.5°/min.) - 240°C

Injector: 220°C

Detector: MSD

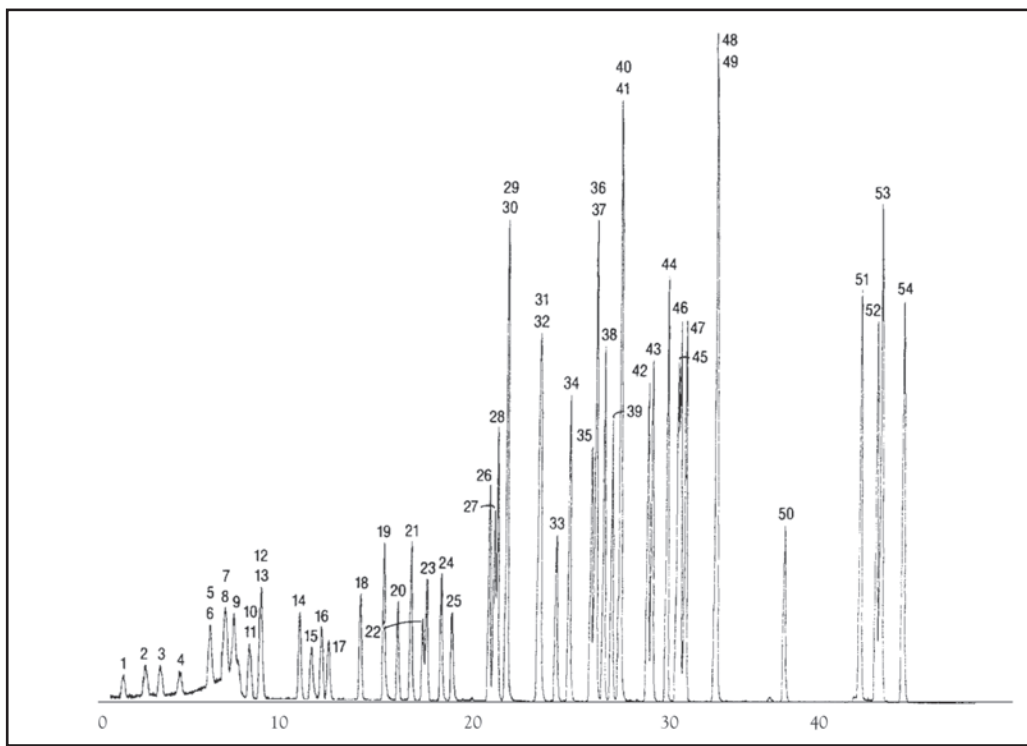
Carrier Gas: 28 cm/sec., Helium

1. 1,1-dichloroethylene
2. methylene chloride
3. trans 1,2-dichloroethylene
4. 1,1-dichloroethane
5. 2,2-dichloropropane
6. cis 1,2-dichloroethylene
7. bromochloromethane
8. chloroform
9. 1,1,1-trichloroethane
10. 1,1-dichloropropylene
11. carbon tetrachloride
12. benzene
13. 1,2-dichloroethane
14. trichloroethylene
15. 1,2-dichloropropane
16. dibromomethane
17. bromodichloromethane
18. cis-1,3-dichloropropene
19. toluene
20. trans 1,3-dichloropropene
21. 1,1,2-trichloroethane
22. 1,3-dichloropropane
23. tetrachloroethene
24. dibromochloromethane
25. 1,2-dibromoethane
26. chlorobenzene
27. 1,1,1,2-tetrachloroethane
28. ethylbenzene
29. m-xylene
30. p-xylene
31. o-xylene
32. styrene
33. bromoform
34. isopropylbenzene
35. 1,1,2,2-tetrachloroethane

36. 1,2,3-trichloropropane
37. bromobenzene
38. n-propylbenzene
39. 2-chlorotoluene
40. 4-chlorotoluene
41. 1,3,5-trimethylbenzene
42. sec-butylbenzene

43. 1,2,4-trimethylbenzene
44. tert-butylbenzene
45. 1,3-dichlorobenzene
46. p-isopropyltoluene
47. 1,4-dichlorobenzene
48. n-butylbenzene

49. 1,2-dichlorobenzene
50. 1,2-dibromo-3-chloropropane
51. 1,2,4-trichlorobenzene
52. hexachlorobutadiene
53. naphthalene
54. 1,2,3-trichlorobenzene



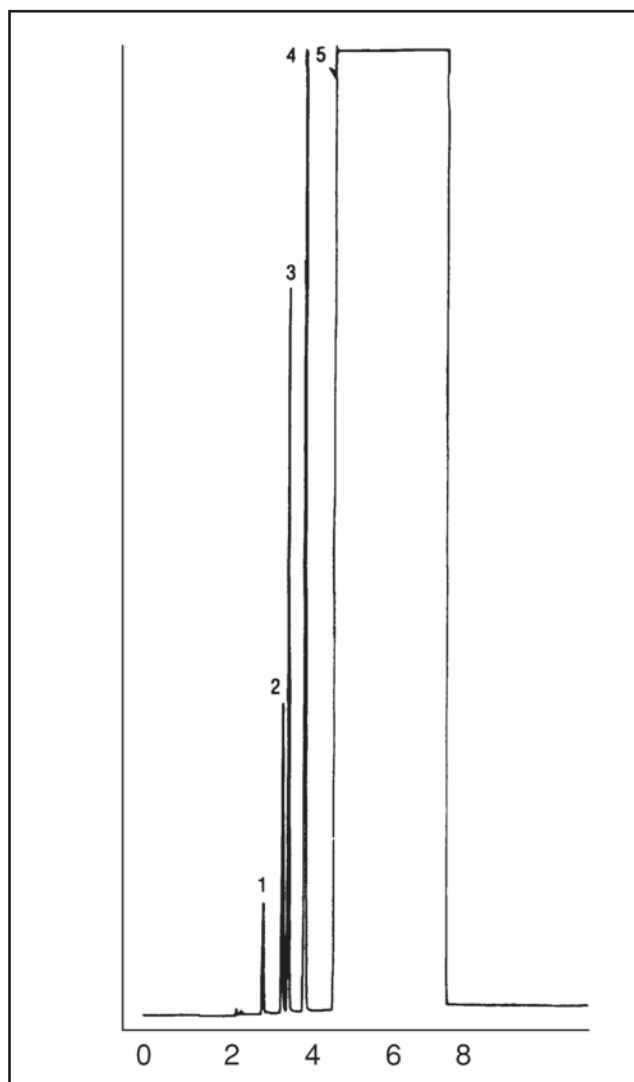
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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 601 Gases Only Direct Injection

COLUMN: 007-624, Cyanopropyl
Phenyl Methylpolysiloxane
30M. x 0.53mm I.D. x 3.0µm film
Cat. No.: 007-624-30V-3.0F
Temperature: 30°C Isothermal
Injector: 70°C
Detector: FID
Carrier Gas: 5 ml/min., Helium

1. dichlorodifluoromethane
2. chloromethane
3. vinyl chloride
4. bromomethane
5. methanol



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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 601 Standards

COLUMN: 007-624,
Cyanopropyl Phenyl
Methylpolysiloxane
30M. x 0.53mm I.D. x 3.0µm film

Cat. No.: 007-624-30V-3.0F

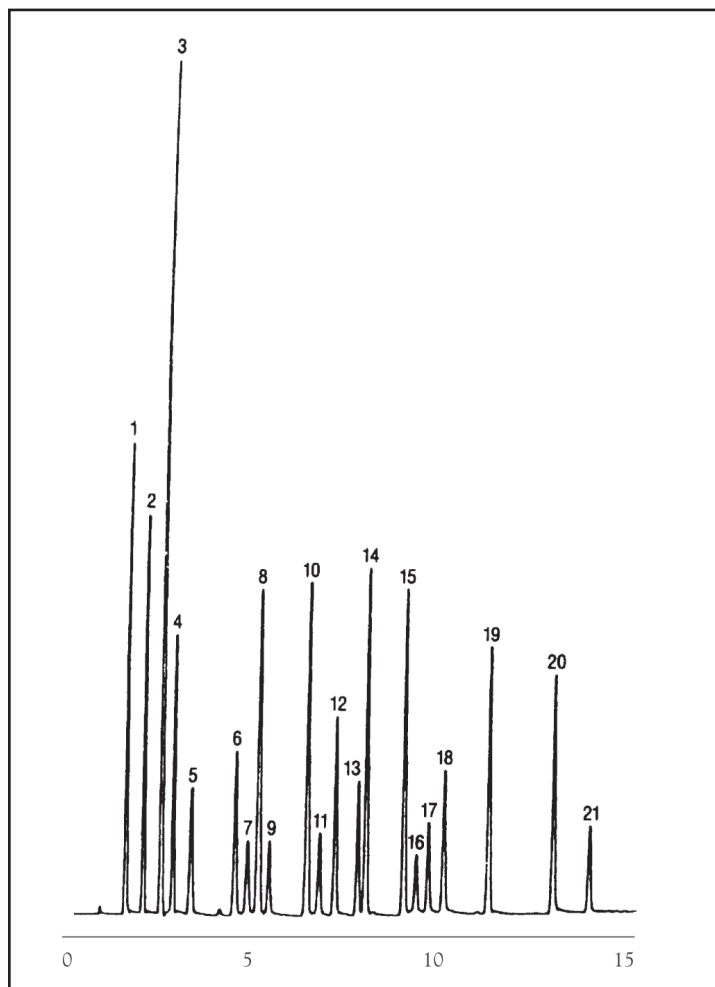
Temperature: 35° (2 min. hold)
(7°/min.) - 125°C

Injector: 220°C

Detector: 300°C, ECD

Carrier Gas: 6 ml/min., Helium

1. trichlorofluoromethane
2. 1,1-dichloroethylene
3. methylene chloride
4. trans 1,2-dichloroethylene
5. 1,1-dichloroethane
6. chloroform
7. 1,1,1-trichloroethane
8. carbon tetrachloride
9. 1,2-dichloroethane
10. trichloroethylene
11. 1,2-dichloropropane
12. bromodichloromethane
13. 2-chloroethylvinyl ether
14. trans 1,3-dichloropropene
15. cis-1,2-dichloropropene
16. 1,1,2-trichloroethene
17. tetrachloroethylene
18. dibromochloromethane
19. chlorobenzene
20. bromoform
21. 1,1,1,2-tetrachloroethane
22. 1,2-dichlorobenzene
23. 1,3-dichlorobenzene
24. 1,4-dichlorobenzene



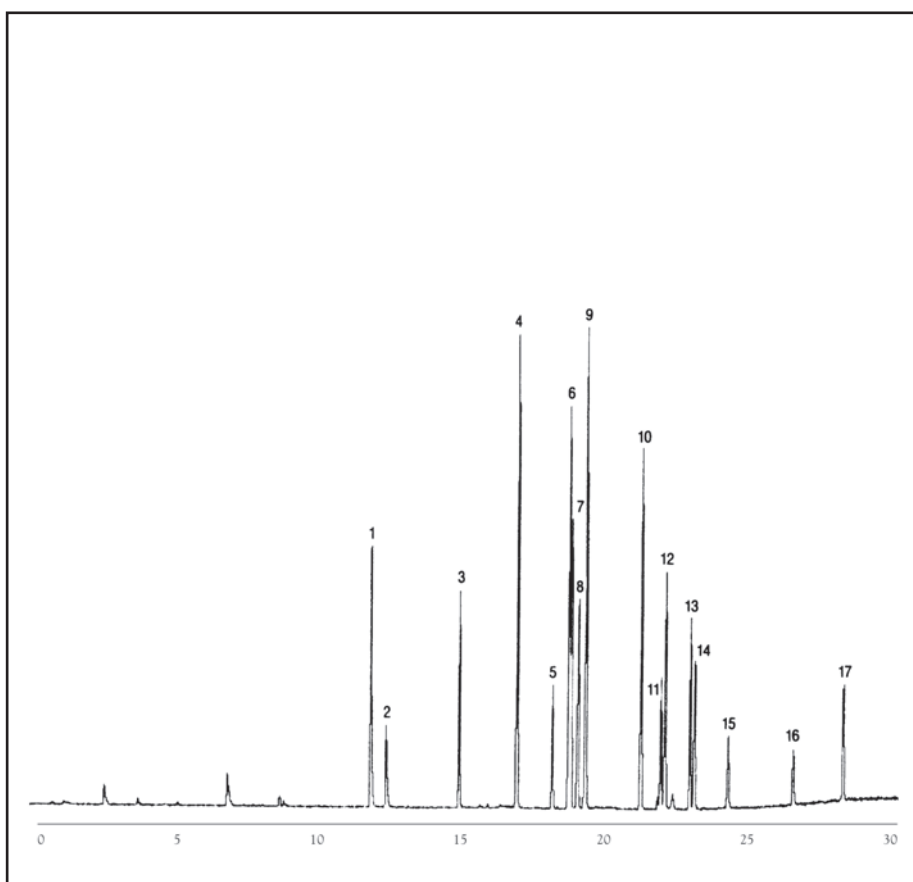
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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 507 Pesticides/ Herbicides

COLUMN: 007-17, (50% Phenyl)
Methylpolysiloxane
25M. x 0.25mm I.D. x
0.25µm film
Cat. No.: 007-17-25-0.25F
Temperature: 80° (6°/min.) - 260°C
Injector: 230°C
Detector: MSD
Carrier Gas: 28 cm/sec., Helium

1. mevinphos (isomer)
2. mevinphos (isomer)
3. demeton
4. phorate
5. disulfoton
6. diazinon and atrazine
7. simazine
8. alachlor
9. fenamophos and bentazone
10. bromocil
11. methyl parathion
12. ametryn
13. malathion
14. ethyl parathion
15. hexazinone
16. ethion
17. azinphos methyl



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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

Chlorinated Pesticides

1. DBCP
2. hexachlorocyclopentadiene
3. etridiazole
4. chloroneb
5. hexachlorobenzene
6. diallate
7. propachlor
8. trifluralin
9. α -BHC
10. PCNB
11. γ -BHC
12. heptachlor
13. aldrin
14. alachlor
15. trans-nonachlor
16. chlorthalonil
17. β -BHC
18. isodrin
19. γ -BHC
20. DCPA
21. heptachlor epoxide
22. endosulfan I
23. γ -chlordane
24. α -chlordane
25. endrin
26. p,p'-DDE
27. captan
28. dieldrin
29. perthane
30. chloropropylate
31. nirtofen
32. p,p'-DDD
33. endosulfan II
34. p,p'-DDT
35. endrin aldehyde
36. mirex
37. endosulfan sulfate
38. methoxychlor
39. endrin ketone
40. trans-permethrin

Column: 007-1701,
(14% Cyanopropylphenyl)
Methylpolysiloxane
30M. x 0.53mm I.D. x
1.0 μ m film

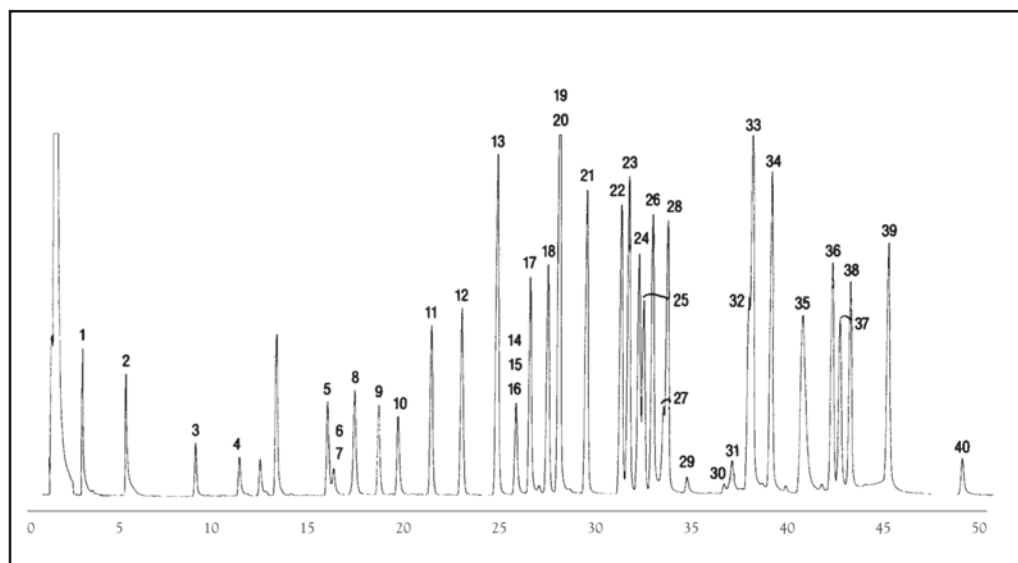
Cat. No.: 007-1701-30V-1.0F

Temperature: 140°(2 min. hold)
(3°/min.) - 270°C

Injector: 250°C

Detector: 320°C, ECD

Carrier Gas: 6 ml/min., Helium



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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

Safflower Oil

COLUMN: 400-65HT, (65% Phenyl)
Methylpolysiloxane -
Aluminum-Clad
15M. x 0.25mm I.D. x
0.1µm film

Cat. No.: 400-65HT-15-0.1F

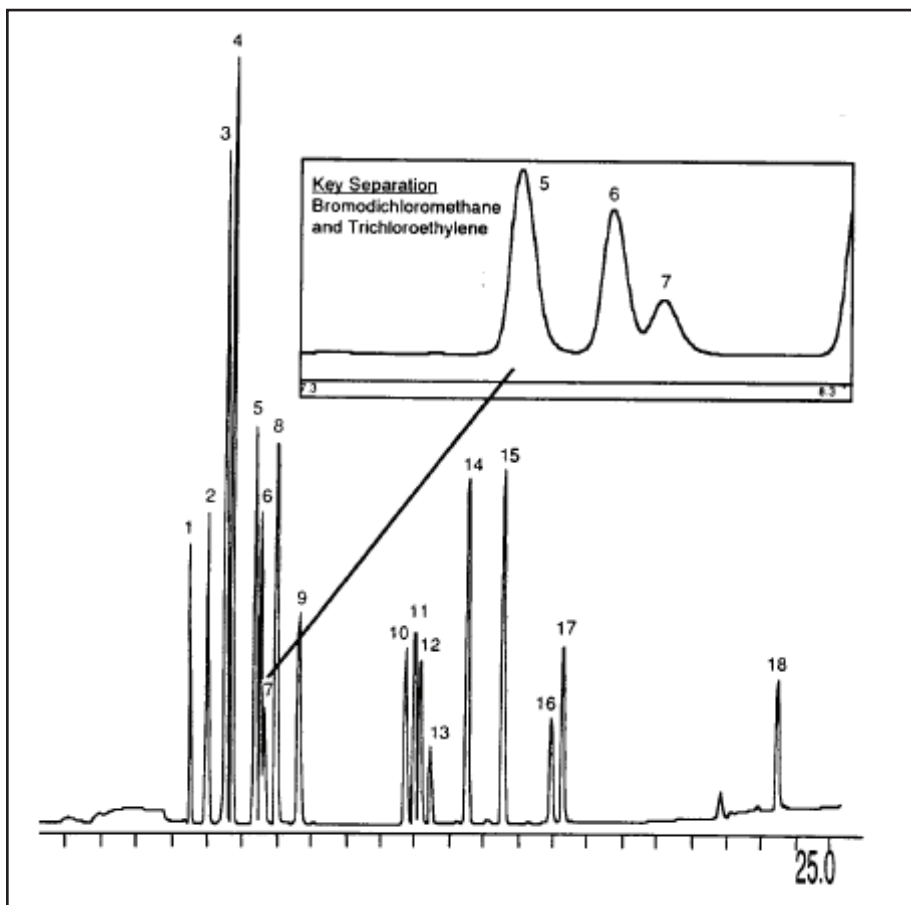
Temperature: 350° (0.5 min. hold)
(1°/min.) - 365°C

Injector: 400°C

Detector: 400°C, FID

Carrier Gas: 35 cm/sec., Helium

1. chloroform
2. 1,1,1-trichloroethane
3. carbon tetrachloride
4. trichloroacetonitrile
5. dichloroacetonitrile
6. bromodichloromethane
7. trichloroethylene
8. chloral hydrate
9. 1,1-dichloropropanone-2
10. chloropicrin
11. dibromochloromethane
12. bromochloroacetonitrile
13. 1,2-dibromoethane (EDB)
14. tetrachloroethylene
15. 1,1,1-tetrachloropropanone
16. bromoform
17. dibromoacetonitrile
18. 1,2-dibromo-3-chloropropane (DBCP)



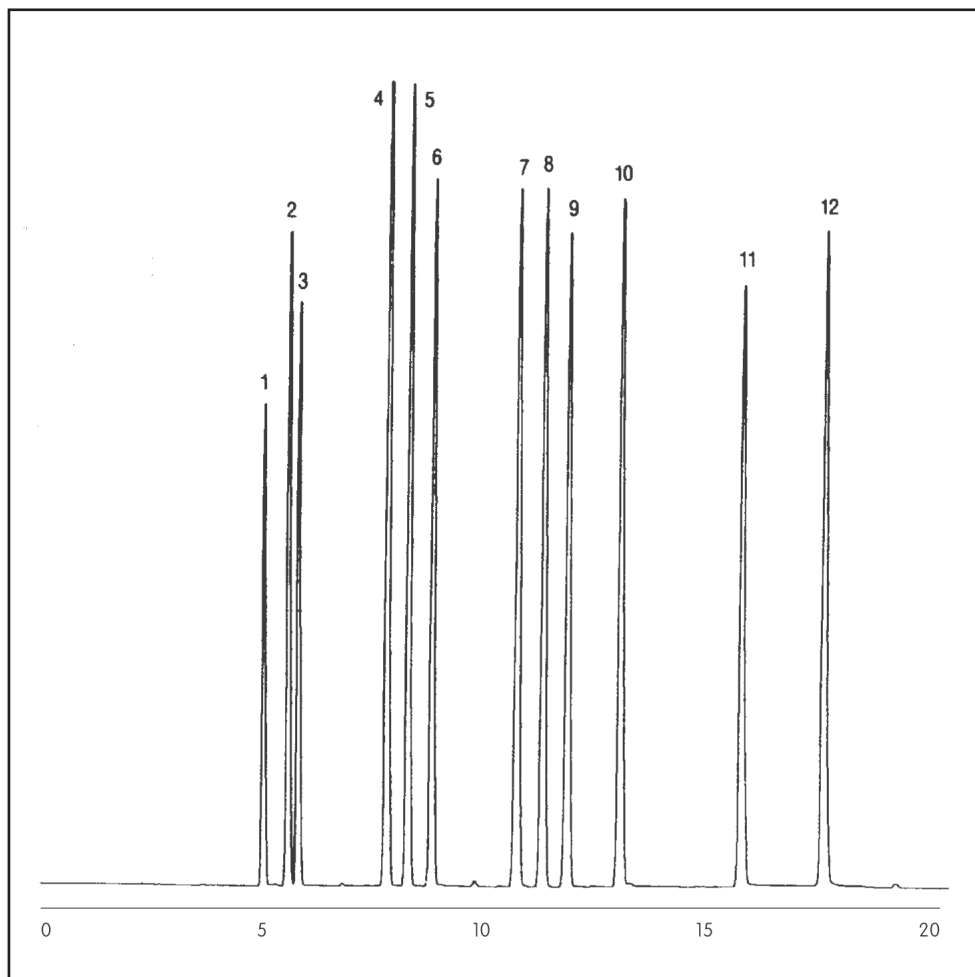
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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

Alcohols

COLUMN: BTR-CW, Carbowax/
BTR -Oxygen resistant
30M. x 0.53mm I.D. x
1.0µm film
Cat. No.: BTR-CW-30V-1.0F
Temperature: 50° (5°/min.) - 100°C
Injector: 220°C
Detector: 250°C , FID
Carrier Gas: 21.7 cm/sec., Helium

1. methanol
2. 2-propanol
3. ethanol
4. 2-methyl-2-butanol
5. 2-butanol
6. 1-propanol
7. 2-methyl-1-propanol
8. 3-pentanol
9. 2-pentanol
10. 1-butanol
11. 3-methyl-1-butanol
12. 1-pentanol



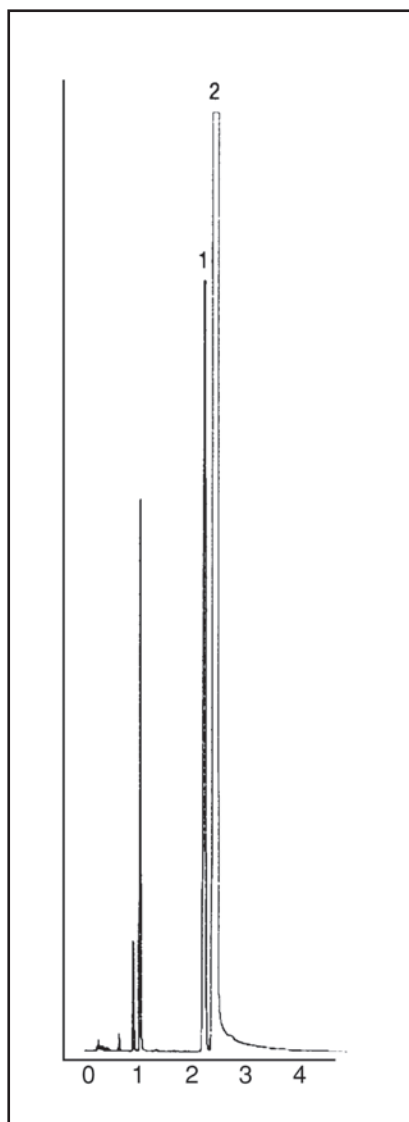
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GC CAPILLARY COLUMN APPLICATIONS: ENVIRONMENTAL

EPA Method 603

COLUMN: 007-CW, Bonded Carbowax
30M. x 0.53mm I.D. x 1.0 μ m film
Cat. No.: 007-CW-30V-1.0F
Temperature: 50°C Isothermal
Injector: 210°C
Detector: 250°C, FID
Carrier Gas: 10 ml/min., Helium

1. acrolein
2. acrylonitrile



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