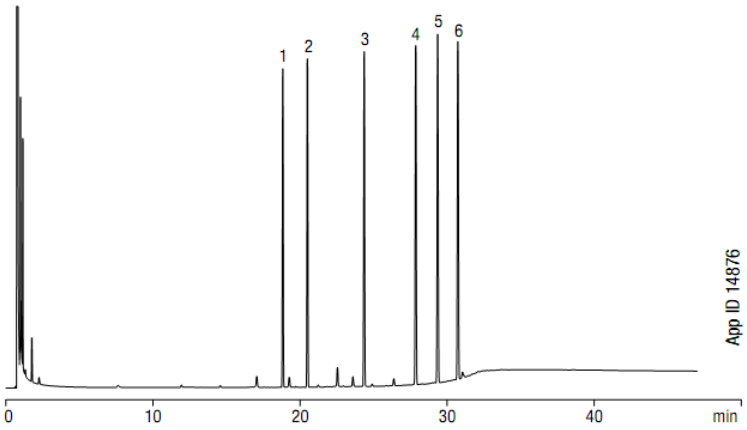
Примеры хроматограмм

Phthalate Esters: EPA Method 606



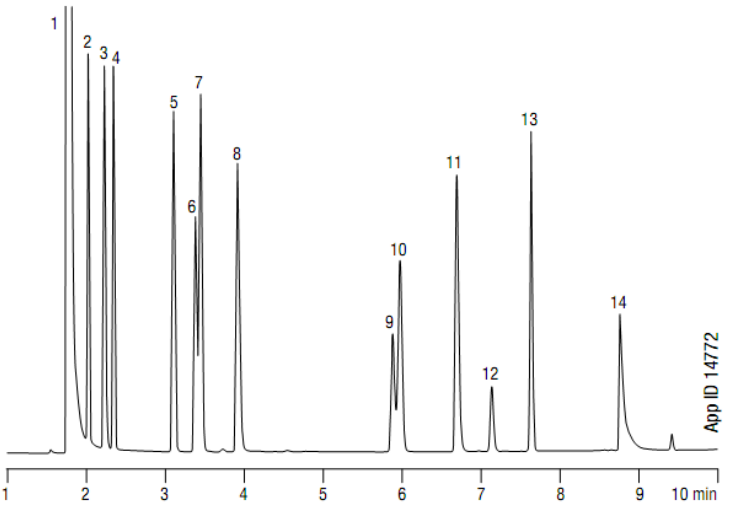
Column: Zebron ZB-5
Dimensions: 30 meter x 0.53 mm x 1.50 µm
Part No.: 7HK-G002-28
Injection: Split 20:1 @ 300 °C, 1 µL
Carrier Gas: Helium @ 12.9 mL/ min (constant flow)
Oven Program: 40 °C for 6 min to 300 °C @ 10 °C/min for 15 min
Detector: FID @ 300 °C
Sample:
1. Dimethyl Phthalate
2. Diethyl Phthalate
3. Di-n-butyl Phthalate
4. Butyl Benzyl Phthalate
5. Bis(2-ethylhexyl) Phthalate
6. Di-n-octyl Phthalate

Исследования

Nonhalogenated Organics Using GC/FID: EPA Method 8015B

Column: Zebron ZB-5
Dimensions: 30 meter x 0.53 mm x 1.50 µm
Part No.: 7HK-G002-28
Injection: Split 20:1 @ 225 °C, 1 µL
Carrier Gas: Helium @ 4.8 mL/min (constant flow)
Oven Program: 45 °C for 3 min to 60 °C at 5 °C/min to 275 °C at 20 °C/min
Detector: FID @ 350 °C
Sample: All analytes at 100 µg/mL

1. Methanol (solvent)
2. Ethanol
3. Acetonitrile
4. Diethyl ether
5. Propanenitrile
6. 2-Butanone [MEK]
7. 2-Methyl-2-propanenitrile
8. Isobutanol
9. 1,4-Dioxane
10. Methylmethacrylate
11. 4-Methyl-2-Pentanone [MIBK]
12. Impurity
13. Ethylmethacrylate
14. Acrylamide

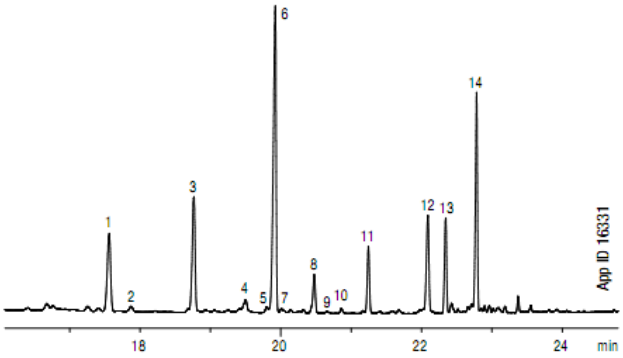


Продукты питания, ароматические и вкусовые добавки

Vitamin E and Sterols

Column: Zebron ZB-5
Dimensions: 30 meter x 0.25 mm x 0.10 µm
Part No.: 7HG-G002-02
Injection: Splitless @ 220 °C, 1 µL
Carrier Gas: Helium @ 1.8 mL/min (constant flow)
Oven Program: 110 °C for 0.2 min to 140 °C @ 30 °C/min to 230 °C @ 10 °C/min for 6 min to 340 °C @ 10 °C/min for 15.8 min
Detector: FID @ 340 °C
Sample:

1. Squalene
2. FFA C24:0
3. δ-Tocopherol
4. δ-Tocomonoenol
5. Campesta-3,5-diene
6. γ-Tocopherol
7. Stigmasta-3,5,22-triene
8. γ-Tocomonoenol
9. Stigmasta-3,5-diene
10. Cholesterol
11. α-Tocopherol
12. Campesterol
13. Stigmasterol
14. β-Sitosterol

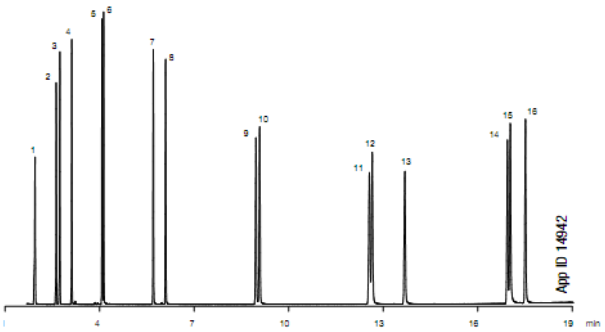


Химическая промышленность

Polynuclear Aromatic Hydrocarbons (PAHs)

Column: Zebron ZB-5 with 5 meter Guardian™
Dimensions: 30 meter x 0.25 mm x 0.25 µm
Part No.: 7HG-G002-11-GGA
Injection: Split 15:1 @ 260 °C, 1 µL
Carrier Gas: Helium @ 1.4 mL/min (constant flow)
Oven Program: 170 °C to 240 °C @ 15 °C/min to 275 °C @ 4 °C/min to 320 °C @ 10 °C/min for 5 min
Detector: MSD @ 280 °C; 50-450 amu
Sample: All analytes are 100 µg/mL in methylene chloride

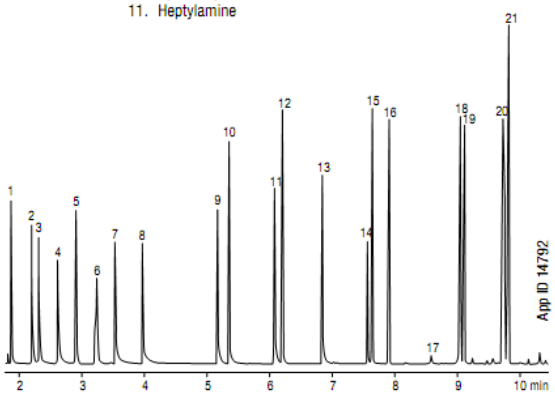
1. Naphthalene
2. Acenaphthylene
3. Acenaphthene
4. Fluorene
5. Phenanthrene
6. Anthracene
7. Fluoranthene
8. Pyrene
9. Benz[a]anthracene
10. Chrysene
11. Benzo[b]fluoranthene
12. Benzo[k]fluoranthene
13. Benzo[a]pyrene
14. Indeno[1,2,3-cd]pyrene
15. Dibenz[a,h]anthracene
16. Benzo[g,h,i]perylene



Aliphatic Amines

Column: Zebron ZB-5
Dimensions: 30 meter x 0.25 mm x 0.25 µm
Part No.: 7HG-G002-11
Injection: Split 15:1 @ 220 °C, 1 µL
Carrier Gas: Helium @ 1.0 mL/min (constant flow)
Oven Program: 40 °C for 3 min to 130 °C @ 30 °C/min to 220 °C @ 15 °C/min
Detector: MSD; 50-450 amu
Sample: 1.58 mg/mL each

1. tert-Butylamine
2. sec-Butylamine
3. Isobutylamine
4. *n*-Butylamine
5. Diisopropylamine
6. Triethylamine
7. Isopentylamine
8. Pentylamine
9. Hexylamine
10. Cyclohexylamine
11. Heptylamine
12. Dibutylamine
13. Octylamine
14. Nonylamine
15. Dipentylamine
16. Tributylamine
17. Decylamine
18. Contaminant
19. Dihexylamine
20. Dicyclohexylamine
21. Contaminant



Note: Peak 17 is reduced in size because the molecular ion peak is outside the selected mass scan range.