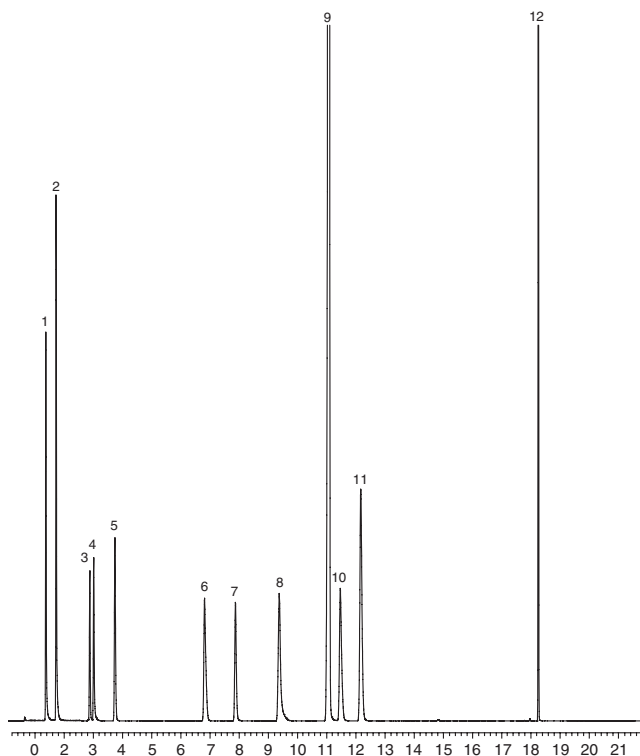


## Food Packaging Volatiles

Rtx®-5MS



## Volatiles Standard

1. isopropanol
2. methylene chloride
3. 2-methyl-1-propanol
4. tetrahydrofuran
5. benzene
6. toluene
7. hexanal
8. furfural
9. 4-heptanone (IS)
10. butyl ether
11. styrene
12. dodecane

Column: Rtx®-5MS, 30m, 0.25mm ID, 1 $\mu$ m (cat.# 12653)  
 Concentrator: Tekmar LSC-3100 purge & trap  
 Trap: Vocab 3000, type K  
 Purge: 10 min. @ 40mL/min. @ 60°C  
 Dry purge: 3 min. @ 40mL/min.  
 Desorb preheat: 220°C  
 Desorb: 245°C, 2 min., 40mL/min.  
 Bake: 230°C, 6 min.  
 Interface: 1:20 split at injection port with 1mm ID liner  
 Transfer line: 0.53mm ID Silcosteel® MXT® tubing (cat.# 20591)  
 Oven temp.: 50°C to 92°C @ 3°C/min., to 220°C @ 20°C/min., hold 1 min.  
 Inj. temp.: 250°C  
 Carrier gas: helium  
 Linear velocity: 36cm/sec. (1mL/min.)  
 Split ratio: 20:1  
 Det.: MSD  
 Det. temp.: 280°C  
 Scan range: 35–260amu  
 Ionization: EI @ 70 eV

## Food Packaging Volatiles

Rtx®-5MS

1. tetrahydrofuran
2. 1-butanol
3. toluene
4. hexanal
5. ethylbenzene
6. 4-heptanone
7. butyl ether
8. styrene
9. 1-methylethylbenzene
10. propylbenzene
11. benzaldehyde
12. benzeneacetaldehyde
13. acetophenone
14. benzoic acid, methyl ester
15. decanal

Column: Rtx®-5MS, 30m, 0.25mm ID, 1 $\mu$ m (cat.# 12653)  
 Concentrator: Tekmar LSC-3100 purge & trap  
 Trap: Vocab 3000, type K  
 Purge: 10 min. @ 40mL/min. @ 60°C  
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 Inj. temp.: 250°C  
 Carrier gas: helium  
 Linear velocity: 36cm/sec. (1mL/min.)  
 Split ratio: 20:1  
 Oven temp.: 50°C to 92°C @ 3°C/min., to 220°C @ 20°C/min., hold for 1 min.  
 Det.: MSD (Agilent 5973)  
 Det. temp.: 280°C  
 Scan range: 35–260amu  
 Ionization: EI @ 70eV

