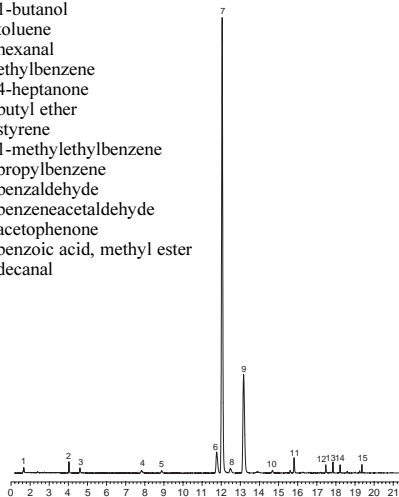


# Food Packaging Volatiles by Purge & Trap GCMS on Rtx-5MS, Overwrap at the Seam

## Peak List:

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



GC\_FF00459

## Column:

Catalog #: 12653  
Dimensions: 30m, 0.25 mm ID, 1 $\mu$ m  
Phase name: Rtx<sup>®</sup>-5MS

## GC:

Agilent 6890  
Oven temp.: 50°C, to 92°C at 3°C/min, to 220°C at 20°C/min, hold for 1 min.

## Injector temp.:

250°C  
Carrier gas: Helium  
Linear velocity: 36 cm/sec (1 mL/min)  
Detector sensitivity: NA  
Split ratio: 20:1

## Detector :

MSD (Agilent 5973)  
Detector temp.: 280°C  
Scan range: 35-260 AMU  
Ionization: EI @ 70 eV  
Mode:

## Sample Conditions:

Concentrator: Tekmar LSC-3100 purge & trap  
Trap: Vocarb 3000, type K  
Purge: 10 min, @ 40 mL/min, at 60°C  
Dry purge: 3 min @ 40 mL/min  
Desorb preheat: 220°C  
Desorb: 245°C, 2 min, 40 mL/min  
Bake: 230°C, 6 min  
Interface: 1:20 split at injection port with 1mm ID liner  
Transfer line: 0.53mm ID Silcosteel<sup>®</sup> MXT<sup>®</sup> tubing, cat#20591