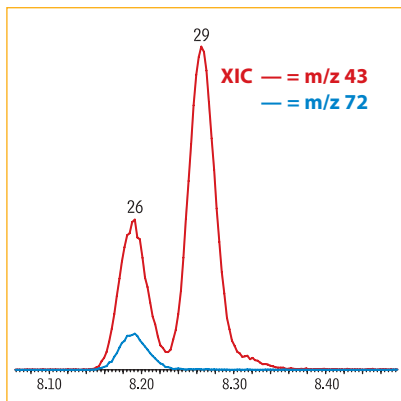


## Volatiles by EPA Method 8260 on Rxi®-624Sil MS (30m, 0.25mm ID, 1.40µm)

NEW!



Resolution of critical pairs, low bleed, and high inertness make this a great column for volatiles!

for more info  
www.restek.com/cat006

**Column:** Rxi®-624Sil MS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 13868)  
**Sample:** 8260A Surrogate Mix (cat.# 30240)

8260A Internal Standard Mix (cat.# 30241)  
8260B MegaMix® Calibration Mix (cat.# 30633)  
VOA Calibration Mix #1 (ketones) (cat.# 30006)  
8260B Acetate Mix (revised) (cat.# 30489)  
California Oxygenates Mix (cat.# 30465)  
502.2 Calibration Mix #1 (gases) (cat.# 30042)

**Conc.:** 25 ppb in RO water  
**Injection:** purge and trap split (split ratio 30:1)  
**Inj. Temp.:** 225 °C

**Purge and Trap**

**Instrument:** OI Analytical 4660  
**Trap Type:** 10 Trap  
**Purge:** 11 min. @ 20 °C  
**Desorb Preheat Temp.:** 180 °C  
**Desorb:** 0.5 min. @ 190 °C  
**Bake:** 5 min. @ 210 °C  
**Interface Connection:** injection port

**Oven**

**Oven Temp.:** 35 °C (hold 5 min.) to 60 °C at 11 °C/min. to 220 °C at 20 °C/min. (hold 2 min.)

**Carrier Gas:**

**Flow Rate:** 1.0 mL/min.  
**Detector:** MS  
**Mode:** Scan  
**Transfer Line Temp.:** 230 °C  
**Analyzer Type:** Quadrupole  
**Source Temp.:** 230 °C  
**Quad Temp.:** 150 °C  
**Electron Energy:** 70 eV  
**Solvent Delay Time:** 1.5 min.  
**Tune Type:** BFB  
**Ionization Mode:** EI  
**Scan Range:** 36-260 amu

**Instrument:**

Agilent 7890A GC & 5975C MSD

**Notes**

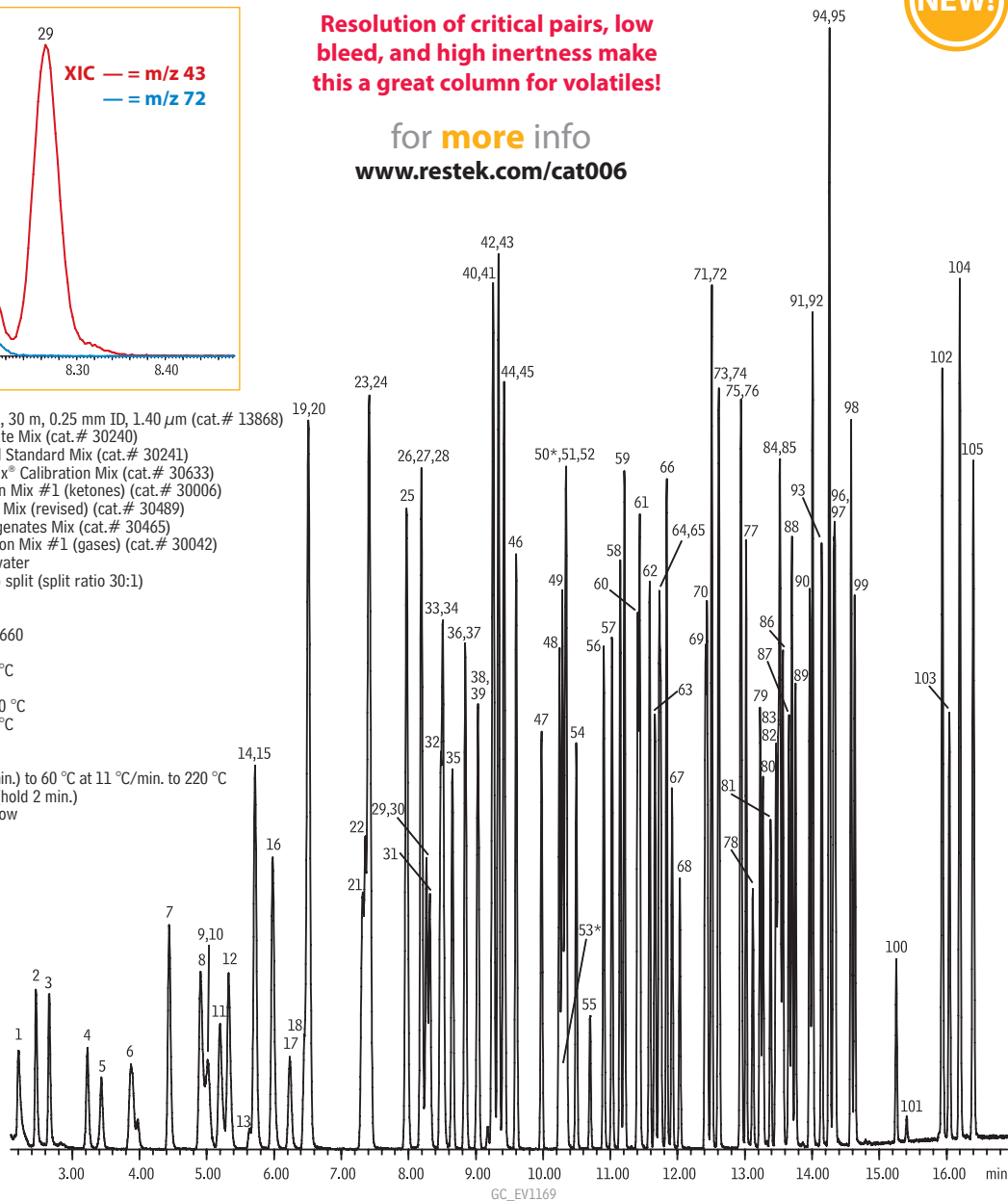
Other Purge and Trap Conditions:

Sample Inlet: 40°C

Sample: 40°C

Water Management:

Purge 110°C, Desorb 0°C, Bake, 240°C



Peaks	RT (min.)	20. <i>trans</i> -1,2-Dichloroethane	6.512	44. Isobutyl alcohol	9.421	66. Butyl acetate	11.837	90. <i>tert</i> -Butylbenzene	13.965
1. Dichlorodifluoromethane (CFC-12)	2.198	21. 1,1-Dichloroethane	7.315	45. <i>tert</i> -Amyl methyl ether (TAME)	9.421	67. Dibromochloromethane	11.921	91. Pentachloroethane	14.007
2. Chloromethane	2.459	22. Vinyl acetate	7.359	46. Fluorobenzene	9.598	68. 1,2-Dibromoethane (EDB)	12.035	92. 1,2,4-Trimethylbenzene	14.010
3. Vinyl chloride	2.659	23. Diisopropyl ether (DIPE)	7.407	47. Trichloroethene	9.976	69. Chlorobenzene-d5	12.412	93. <i>sec</i> -Butylbenzene	14.140
4. Bromomethane	3.226	24. Chloroprene	7.429	48. 1,2-Dichloropropane	10.243	70. Chlorobenzene	12.440	94. 4-Isopropyltoluene ( <i>p</i> -cymene)	14.254
5. Chloroethane	3.434	25. Ethyl <i>tert</i> -butyl ether (ETBE)	7.970	49. Methyl methacrylate	10.290	71. Ethylbenzene	12.507	95. 1,3-Dichlorobenzene	14.263
6. Trichlorofluoromethane (CFC-11)	3.876	26. 2-Butanone (MEK)	8.193	50. 1,4-Dioxane (ND)	10.299*	72. 1,1,1,2-Tetrachloroethane	12.507	96. 1,4-Dichlorobenzene-D4	14.321
7. Diethyl ether (ethyl ether)	4.440	27. <i>cis</i> -1,2-Dichloroethene	8.193	51. Dibromomethane	10.326	73. <i>m</i> -Xylene	12.612	97. 1,4-Dichlorobenzene	14.340
8. 1,1-Dichloroethene	4.909	28. 2,2-Dichloropropane	8.193	52. Propyl acetate	10.346	74. <i>p</i> -Xylene	12.612	98. <i>n</i> -Butylbenzene	14.579
9. 1,1,2-Trichlorotrifluoroethane (CFC-113)	4.998	29. Ethyl acetate	8.265	53. 2-Chloroethanol (ND)	10.368*	75. <i>o</i> -Xylene	12.935	99. 1,2-Dichlorobenzene	14.635
10. Acetone	5.029	30. Propionitrile	8.276	54. Bromodichloromethane	10.496	76. Styrene	12.949	100. 1,2-Dibromo-3-chloropropane (DBCP)	15.252
11. Iodomethane	5.195	31. Methacrylonitrile	8.476	55. 2-Nitropropane	10.698	77. <i>n</i> -Amyl acetate	13.018	101. Nitrobenzene	15.407
12. Carbon disulfide	5.323	32. Bromochloromethane	8.507	56. <i>cis</i> -1,3-Dichloropropene	10.904	78. Bromoform	13.118	102. 1,2,4-Trichlorobenzene	15.935
13. Acetonitrile	5.637	33. Tetrahydrofuran	8.521	57. 4-Methyl-2-pentanone (MIBK)	11.026	79. Isopropylbenzene (cumene)	13.226	103. Hexachloro-1,3-butadiene	16.040
14. Allyl chloride	5.715	34. Bromofluoromethane	8.843	58. Toluene-D8	11.148	80. <i>cis</i> -1,4-Dichloro-2-butene	13.268	104. Naphthalene	16.196
15. Methyl acetate	5.723	35. Chloroform	8.651	59. Toluene	11.210	81. 4-Bromofluorobenzene	13.385	105. 1,2,3-Trichlorobenzene	16.396
16. Methylene chloride	5.981	36. 1,1,1-Trichloroethane	8.843	60. <i>trans</i> -1,3-Dichloropropene	11.407	82. 1,1,2,2-Tetrachloroethane	13.456		
17. <i>tert</i> -Butyl alcohol	6.234	37. Dibromofluoromethane	8.848	61. Ethyl methacrylate	11.435	83. <i>trans</i> -1,4-Dichloro-2-butene	13.496		
18. Acrylonitrile	6.451	38. Carbon tetrachloride	9.026	62. 1,1,2-Trichloroethane	11.585	84. Bromobenzene	13.515		
19. Methyl <i>tert</i> -butyl ether (MTBE)	6.509	39. 1,1-Dichloropropene	9.037	63. Tetrachloroethene	11.662	85. 1,2,3-Trichloropropane	13.526		
		40. 1,2-Dichloroethane-d4	9.246	64. 1,3-Dichloropropane	11.729	86. <i>n</i> -Propylbenzene	13.565		
		41. Benzene	9.262	65. 2-Hexanone	11.749	87. 2-Chlorotoluene	13.657		
		42. 1,2-Dichloroethane	9.334			88. 1,3,5-Trimethylbenzene	13.699		
		43. Isopropyl acetate	9.340			89. 4-Chlorotoluene	13.751		

\* ND = not detected; retention time determined by wet needle injection

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