

Fragrance Reference Standard

Conditions and compound list for all chromatograms

Column: **DB-1**

30 m x 0.25 mm I.D., 0.25 µm

J&W P/N: **122-1032**

Carrier: Helium at 25 cm/sec, measured at 150°C

Oven: 40°C for 1 min

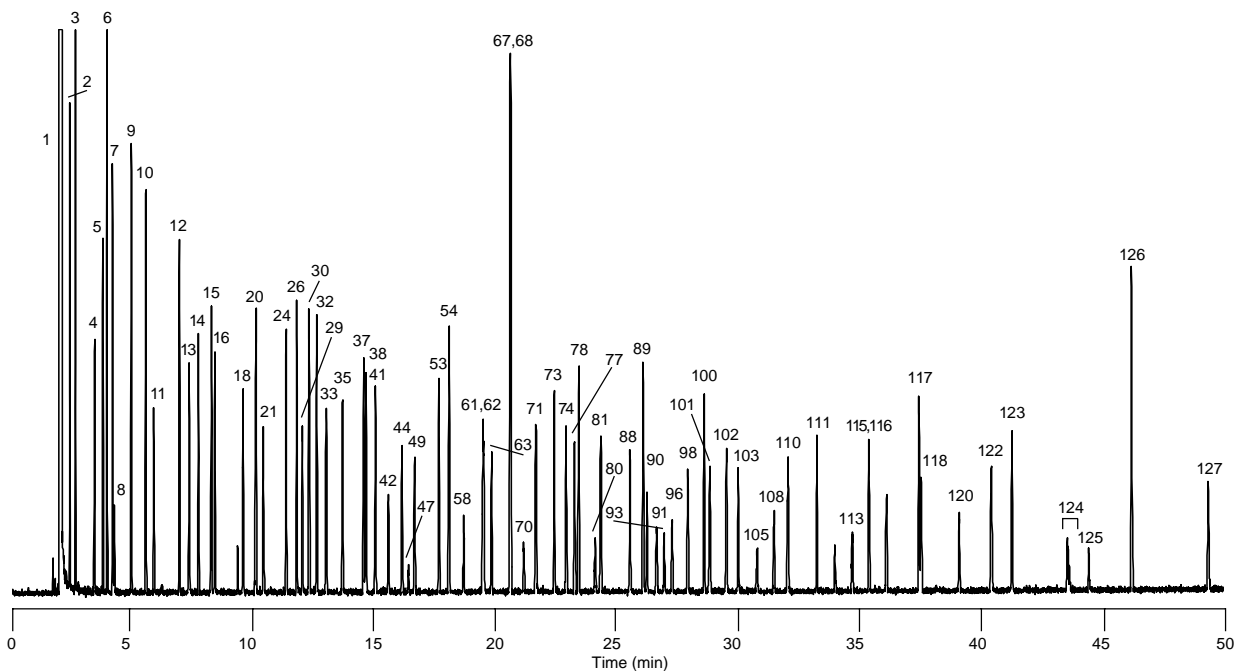
40-290°C at 5°/min

Injector: Split 1:50, 250°C

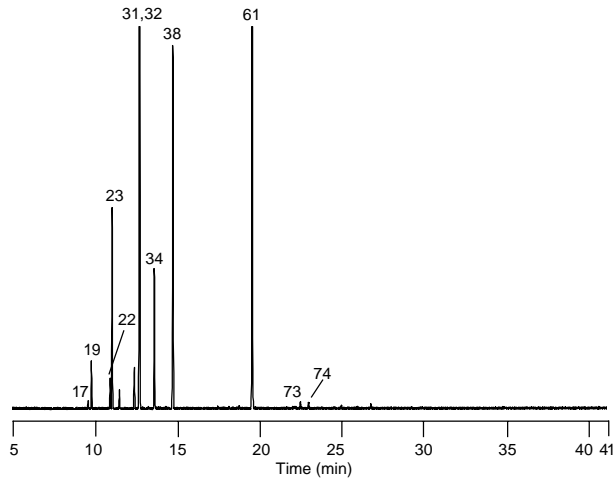
Detector: 1 µL of a 1:20 dilution of neat sample in acetone
MSD, 300°C transfer line

Many thanks to Carl Frey, Manager of Analytical Services, Dragoco, and Kevin Myung, Director of Flavor and Perfumery Research, Bush Boake Allen, Inc. for contributing to this work.

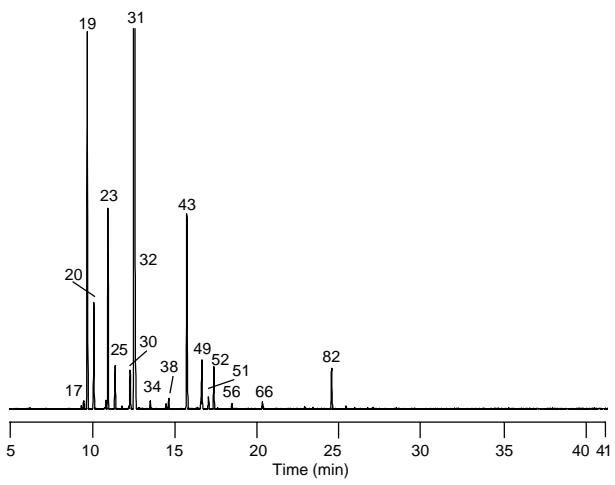
- | | | |
|--|----------------------------------|---|
| 1. Acetone | 46. Menthone | 98. <i>n</i> -Amyl salicylate |
| 2. 2,3-Butanedione (diacetyl) | 47. Isoborneol | 99. Phenylethyl tiglate |
| 3. Ethyl acetate | 48. Isomenthone | 100. Ethyl dodecanoate |
| 4. 2,3-Pentanedione (acetyl propionyl) | 49. Borneol | 101. Benzophenone |
| 5. Ethyl propionate | 51. Terpinen-4-ol | 102. Dibenzyl ether |
| 6. Methyl butyrate | 52. α -Terpineol | 103. γ -Dodecalactone |
| 7. 3-Methylbutyl alcohol | 53. Ethyl octanoate | 104. Citronellyl tiglate |
| 8. 2-Methylbutyl alcohol | 54. Octyl acetate | 105. Evernyl |
| 9. Isobutyl acetate | 56. Fenchyl acetate | 106. Geranyl tiglate |
| 10. Ethyl butyrate | 57. Citronellol | 107. Geranyl-2-methyl valerate |
| 11. Furfural | 58. Neral | 108. Celestocide |
| 12. Ethyl isovalerate | 59. Carvone | 109. Heptadec-1-ene |
| 13. Hexanol | 59a. Phenylethyl acetate | 110. Benzyl benzoate |
| 14. Allyl butyrate | 60. Geraniol | 111. Ethyl tetradecanoate |
| 15. Ethyl pentanoate | 61. Linalyl acetate | 112. Benzyl salicylate |
| 16. Hexylene glycol | 62. Geranial | 113. Tonalid TM |
| 17. α -Thujone | 63. Hydroxycitronellal | 114. Nonadec-1-ene |
| 18. Benzaldehyde | 64. Citronellyl formate | 115. Isopropylmyristate |
| 19. α -Pinene | 66. Bornyl acetate | 116. Ethyl pentadecanoate |
| 20. Camphene | 67. Vertenex (isomer 1) | 116a. Nonadecane |
| 21. 3,5,5-Trimethylhexanol | 68. Ethyl nonanoate | 117. Ethyl hexadecanoate |
| 22. Sabinene | 69. Geranyl formate | 118. Musk T (ethylene brassylate) |
| 23. β -Pinene | 70. Vertenex (isomer 2) | 119. Eicosane |
| 24. Ethyl hexanoate | 71. γ -Nonalactone | 120. Cinnamyl phenyl acetate |
| 25. Myrcene | 72. Citronellyl acetate | 121. Heneicosane |
| 26. Hexyl acetate | 73. Neryl acetate | 122. Phenyl ethyl cinnamate |
| 26a. <i>cis</i> -Linalool oxide | 74. Geranyl acetate | 123. Ethyl octadecanoate |
| 26b. Methyl benzoate | 76. Diphenyl oxide | 124. Hercolyn TM D (tetrahydro & dihydro methyl abietate) |
| 26c. <i>trans</i> -Linalool oxide | 78. Ethyl decanoate | 125. Cinnamyl cinnamate |
| 28. Methyl-cresol | 79. α -Copaene | 126. Cetearyl octanoate |
| 29. Benzyl alcohol | 80. Florazone (isomer 1) | 127. Cetearyl decanoate |
| 30. <i>para</i> -Cymene | 81. Florazone (isomer 2) | |
| 31. 1,8-Cineol | 82. β -Caryophyllene | |
| 32. Limonene | 83. Citronellyl propionate | |
| 33. 2,6-Dimethylhept-5-enal | 85. 3,7-Guaiadiene | |
| 34. γ -Terpinene | 88. Dodecanol | |
| 35. Octanol | 89. Ethyl undecanoate | |
| 37. Ethyl heptanoate | 90. Eugenyl acetate | |
| 38. Linalool | 91. Frambione (raspberry ketone) | |
| 39. Benzene ethanol | 93. Isoamyl salicylate | |
| 41. Rose oxide, <i>cis</i> -rose | 94. δ -Cadinene | |
| 42. Rose oxide, <i>trans</i> -rose | 95. <i>cis</i> -Nerolidol | |
| 43. Camphor | 96. Rosatol (rosetone) | |
| 44. Citronellal | 96a. Geranyl butyrate | |
| 45. Benzyl acetate | 97. <i>trans</i> -Nerolidol | |



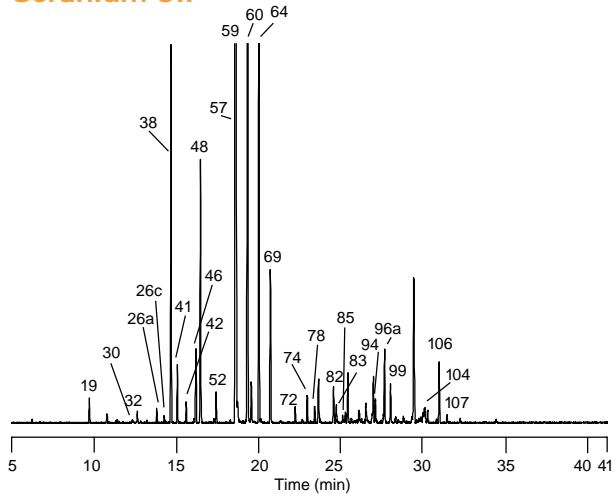
Bergamot Oil



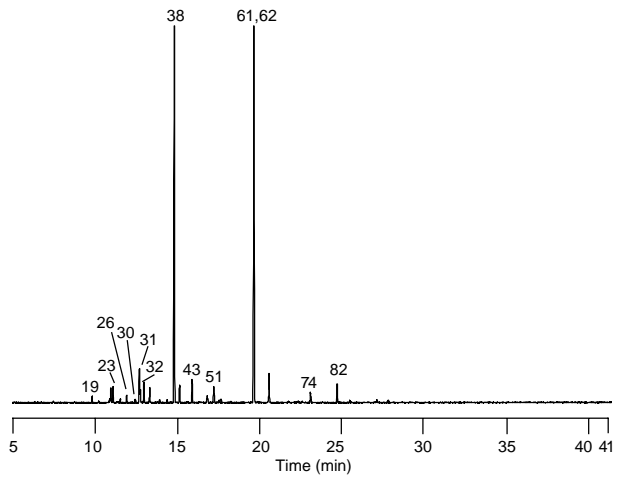
Rosemary Oil



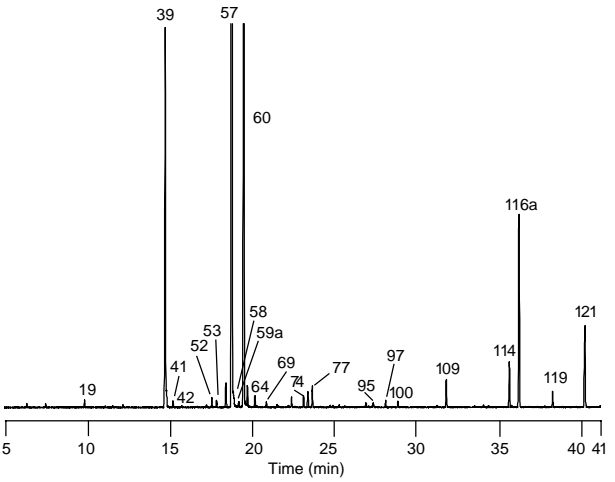
Geranium Oil



Lavender Oil



Rose Oil



Ylang Ylang Oil

