

# Ozone Precursor Analysis on GS-GasPro

**Column:** GS-GasPro  
**60 m x 0.32 mm I.D.**  
**J&W P/N:** 113-4362  
**Carrier:** Helium at 40 cm/sec (3.3 mL/min)  
 measured at 80°C  
**Oven:** 80°C for 0.5 min  
 80-175°C at 25°/min  
 175°C for 2 min  
 175-250°C at 25°/min  
**Injector:** Split 1:17, 250°C  
 500 µL injection of 100 ppmV  
 SUMMA canister mixture  
**Detector:** FID, 275°C  
 Nitrogen makeup gas at 32 mL/min

(not all peaks shown)

1. Methane
2. Ethane
3. Ethylene
4. Propane
5. Propylene
6. Isobutane
7. Acetylene
8. *n*-Butane
9. *trans*-2-Butene
10. 1-Butene
11. *cis*-2-Butene
12. Cyclopentane
13. Isopentane
14. *n*-Pentane
15. Propyne
16. 1,3-Butadiene
17. Cyclopentene
18. 3-Methyl-1-butene
19. *trans*-2-Pentene
20. 2-Methyl-2-butene
21. 1-Pentene
22. *cis*-2-Pentene
23. Methylcyclopentane
24. 2,2-Dimethylbutane
25. Cyclohexane
26. 2,3-Dimethylbutane

27. 2-Methylpentane
28. 3-Methylpentane
29. Isoprene
30. *n*-Hexane
31. 4-Methyl-1-pentene
32. *trans*-2-Hexene
33. 2-Methyl-1-pentene
34. *cis*-2-Hexene
35. 2,4-Dimethylpentane
36. Methylcyclohexane
37. 2,3-Dimethylpentane
38. 2-Methylhexane
39. 3-Methylhexane
40. *n*-Heptane
41. Benzene
42. Isooctane (2,2,4-trimethylpentane)
43. 2,3,4-Trimethylpentane
44. 3-Methylheptane
45. 2-Methylheptane
46. *n*-Octane
47. Toluene
48. *n*-Nonane
49. Ethylbenzene
50. *m*-Xylene
51. *p*-Xylene
52. *o*-Xylene
53. Styrene
54. Isopropylbenzene (cumene)
55. *n*-Propylbenzene
56. 1,3-Trimethylbenzene
57. 1,2,4-Trimethylbenzene

