

## Ketones

### Column: DB-PSWAX

30 m x 0.53 mm I.D., 1.0 µm

J&W P/N: 145-7032

Carrier: Helium at 30 cm/sec, measured at 40°C

Oven: 40°C for 5 min

40-230°C at 10°/min

230°C for 7 min

Injector: Split 1:10, 250°C

Detector: FID, 300°C

Nitrogen makeup gas at 30 mL/min

- |   |   |   |
|---|---|---|
| 1. Acetone                                  | 10. 4-Methyl-2-pentanone<br>(MIBK; methyl isobutyl<br>ketone) | 20. 3-Heptanone                                     |
| 2. 3-Penten-2-one<br>(methyl vinyl ketone)  | 11. 2-Methyl-3-pentanone                                      | 21. 2-Heptanone                                     |
| 3. 2,3-Butanedione<br>diacetyl              | 12. Cyclopentanone  | 22. Cyclohexanone                                   |
| 4. 2-Butanone<br>(MEK; methyl ethyl ketone) | 13. 3-Hexanone  | 23. 5-Methyl-3-heptanone                            |
| 5. 3-Methyl-2-butanone                      | 14. 2-Hexanone  | 24. 2,6-Dimethyl-4-heptanone<br>(diisobutyl ketone) |
| 6. 1-Penten-3-one<br>(ethyl vinyl ketone)   | 15. 4-Methyl-3-penten-3-one                                   | 25. 3-Octanone                                      |
| 7. 2-Pentanone                              | 16. 2,4-Dimethyl-3-pentanone<br>(diisopropyl ketone)          | 26. 2-Octanone                                      |
| 8. 2,3-Pentanedione                         | 17. 4-Hexen-3-one   | 27. Acetophenone                                    |
| 9. 3-Pentanone                              | 18. 5-Methyl-2-hexanone                                       | 28. Isophorone                                      |
|   | 19. 4-Heptanone   | 29. 4-Phenyl-2-butanone<br>(benzyl acetone)         |

