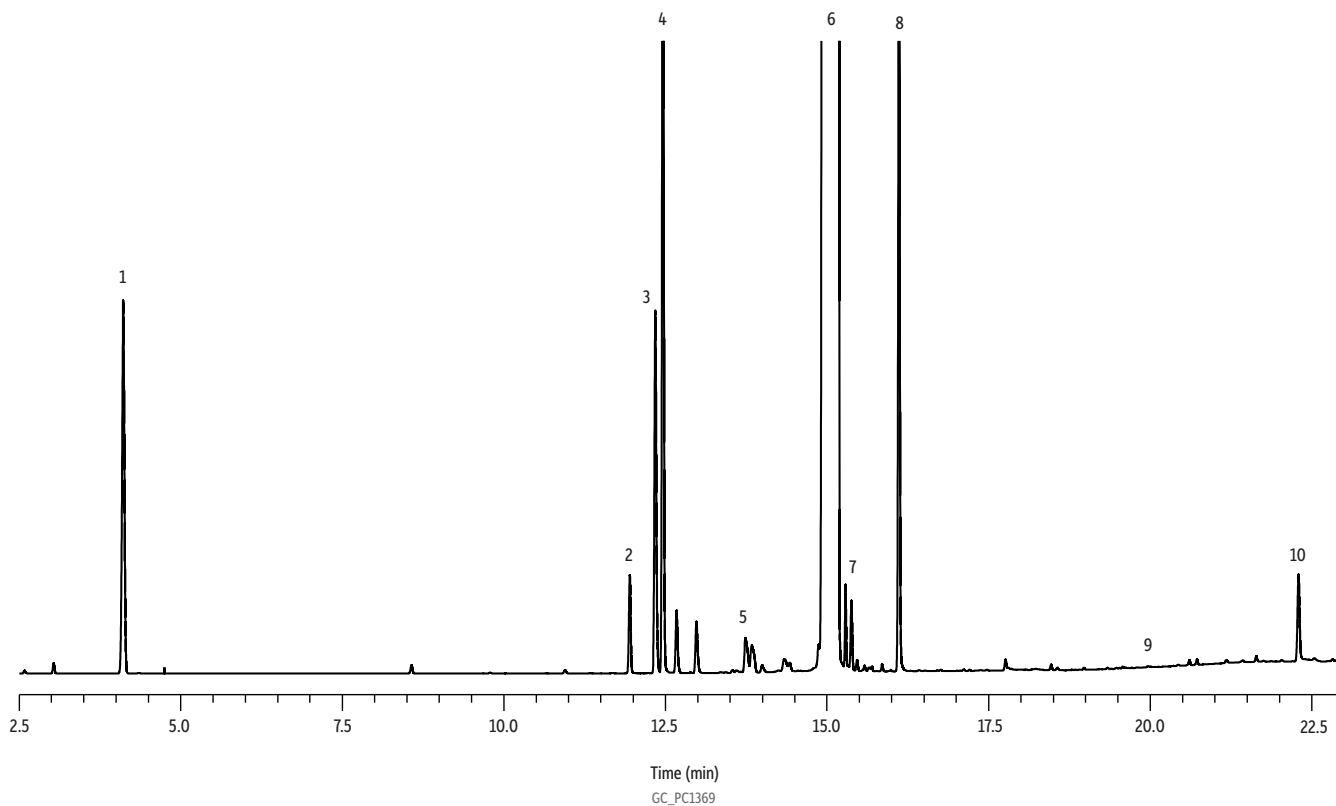


# Isophorone Purity Analysis (ASTM D7090) on Rtx-Wax



Peaks	ts (min)
1. Decane (IS)	4.112
2. Cyclohexanone, 3,3,5-trimethyl-	11.949
3. 3,3,5,5-Tetramethylcyclohexanone	12.345
4. $\beta$ -Isophorone	12.463
5. 2,6-Dimethyl-2,5-heptadien-4-one	13.739
6. Isophorone	15.178
7. 3,5-Dimethyl-2-cyclohexen-1-one	15.288
8. 4-Oxoisophorone	16.116
9. $\alpha$ -Tetralone	20.604
10. 4-Hydroxyisophorone	22.291

**Column** Rtx-Wax, 30 m, 0.32 mm ID, 0.5  $\mu$ m (cat.# 12439)  
**Sample** Isophorone with IS  
**Conc.:** Neat  
**Injection**  
 Inj. Vol.: 1  $\mu$ L split (split ratio 100:1)  
 Liner: Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)  
 Inj. Temp.: 250 °C  
**Oven**  
 Oven Temp.: 50 °C (hold 5 min) to 210 °C at 10 °C/min (hold 5 min)  
**Carrier Gas** He, constant flow  
 Flow Rate: 2.5 mL/min  
**Detector** FID @ 250 °C  
**Instrument** Agilent 7890B GC  
**Notes** Peaks 2, 3, 4, 8, and 10 were identified using the NIST MS library.