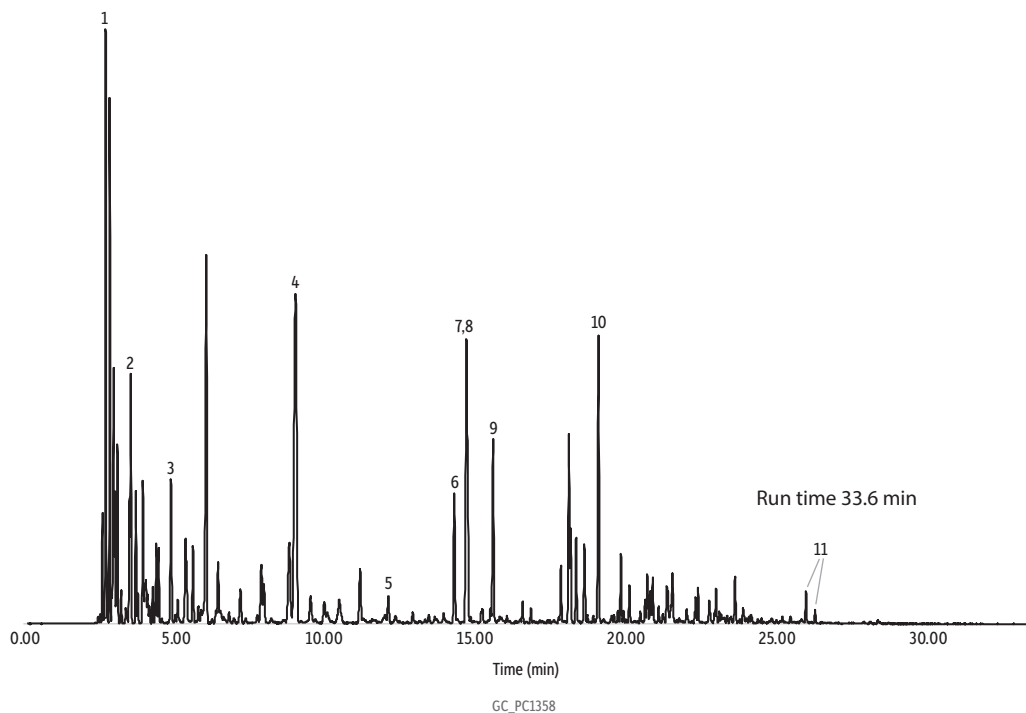


# Determination Of Hydrocarbon Group Type in Gasoline on Rxi-1ms by GC-VUV (ASTM D8071)



### Peaks

1. Ethanol
2. 2-Methylpentane
3. Isooctane
4. Toluene
5. Octane
6. Ethylbenzene

### Peaks

7. *m*-Xylene
8. *p*-Xylene
9. *o*-Xylene
10. 1,2,4-Trimethylbenzene
11. Methylnaphthalenes

**Column** Rxi-1ms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13323)

**Sample** Gasoline

**Conc.:** Neat

### Injection

**Inj. Vol.:** 1 µL split (split ratio 300:1)

**Liner:** Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)

**Inj. Temp.:** 250 °C

### Oven

**Oven Temp.:** 35 °C (hold 10 min) to 200 °C at 7 °C/min

**Carrier Gas** He, constant flow

**Flow Rate:** 1 mL/min

**Detector** VUV

**Transfer Line Temp.:** 275 °C

**Flow Cell Temp.:** 275 °C

**Acquisition Range:** 125-240 nm

**Acquisition Rate:** 4.5 spectra/sec

**Instrument** HP 6890 GC & VUV Analytics VGA-100

**Notes** ASTM D8071: Standard Test Method for Determination of Hydrocarbon Group Types and Select Hydrocarbon and Oxygenate Compounds in Automotive Spark-Ignition Engine Fuel Using Gas Chromatography with Vacuum Ultraviolet Absorption Spectroscopy Detection (GC-VUV)

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