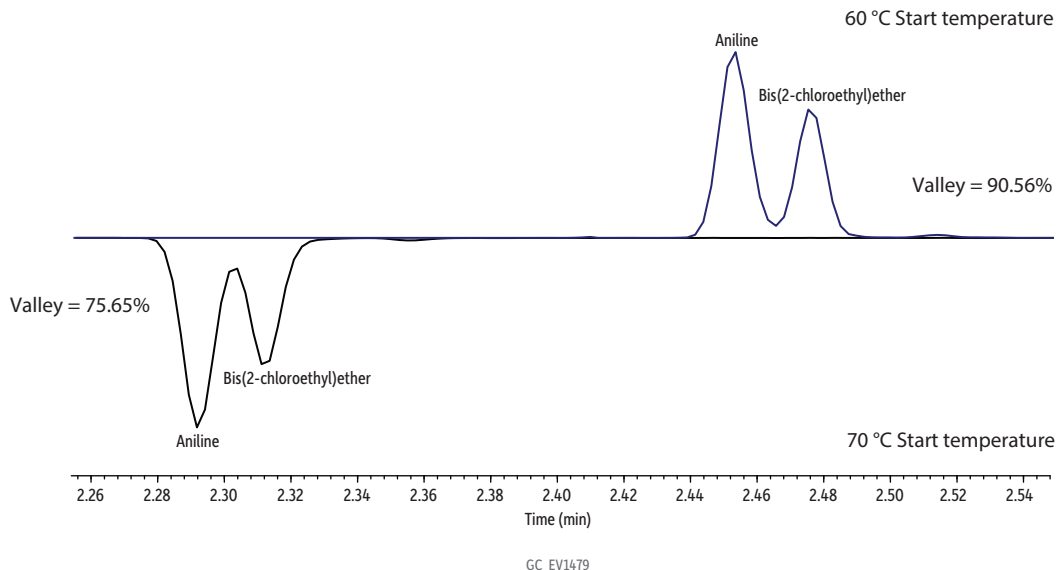


Improved Resolution of Aniline and Bis(2-Chloroethyl)ether when the Starting Oven Temp. is Reduced to 60 °C (Top) from 70 °C (Bottom)



Peaks

1. Aniline
2. Bis(2-chloroethyl) ether

Column Rxi-5Sil MS, 20 m, 0.15 mm ID, 0.15 µm (cat.# 43816)

Sample 8270 MegaMix (cat.# 31850)
8270 Benzidines mix (cat.# 31852)
Benzoic acid (cat.# 31879)
Revised B/N surrogate mix (cat.# 31888)
Acid surrogate mix (4/89 SOW) (cat.# 31063)
Revised SV internal standard mix (cat.# 31886)

Diluent: Methylene chloride
Conc.: 20 µg/mL (IS/SS 20 µg/mL)

Injection
Inj. Vol.: 1 µL split (split ratio 20:1)
Liner: Topaz 4 mm single taper w/wool (cat.# 23303)
Inj. Temp.: 275 °C

Split Vent
Flow Rate: 12 mL/min

Carrier Gas
Flow Rate: He, constant flow
0.72 mL/min

Detector
Mode: MS
Scan

Transfer Line
Temp.: 280 °C

Analyzer Type: Quadrupole

Source Temp.: 330 °C

Quad Temp.: 180 °C

Electron Energy: 70 eV

Solvent Delay

Time: 1.3 min

Tune Type: DFTPP

Ionization Mode: EI

Scan Range: 39-550 amu

Scan Rate: 9.8 scans/sec

Instrument Agilent 7890B GC & 5977A MSD

Notes Analyzed using a 120 V oven equipped with the GC Accelerator kit (cat.# 23849).

Oven Programs

Top: 60 °C (hold 0.7 min) to 285 °C at 39.8 °C/min to 305 °C at 4.3 °C/min to 330 °C at 28.5 °C/min (hold 3.5 min)

Bottom: 70 °C (hold 0.7 min) to 285 °C at 39.8 °C/min to 305 °C at 4.3 °C/min to 320 °C at 28.5 °C/min (hold 0.7 min)