

Separation of C6 Olefins on an Alumina Plot Column Using the Agilent Micro GC

Application Note

Micro Gas Chromatography, Hydrocarbon Processing Industry

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Introduction

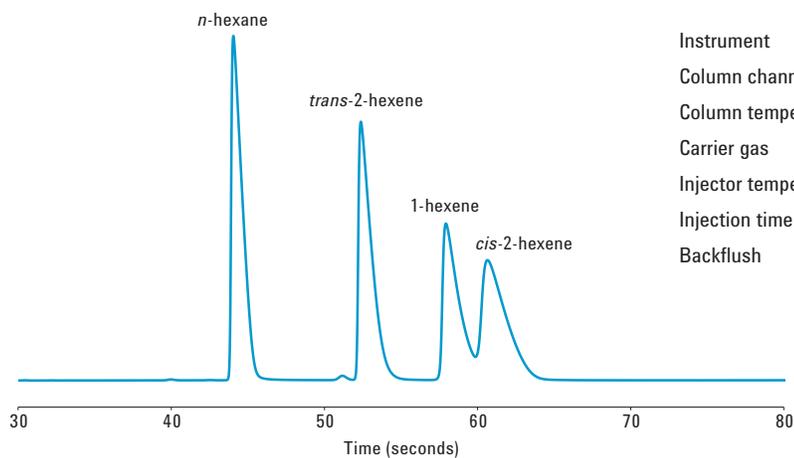
This application note highlights the analysis of C6 olefins using an Agilent 490 Micro GC. This portable and modular Micro GC can hold up to four independently controlled and calibrated column channels. Each channel is equipped with an electronic gas control, short narrowbore analytical column, micro-machined injector, and Micro TCD detector, resulting in fast analysis. The instrument delivers lab-quality separations in an ultra-compact, portable instrument.

The 490 Micro GC, equipped with a 10 m aluminum oxide column deactivated with potassium chloride, completes the separation of *n*-hexane, *trans* and *cis*-hexane, and 1-hexane in just over 1 minute. More actionable data in less time results in faster, and better, business decisions.



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Chromatogram



Instrument	Agilent 490 Micro GC (p/n G3581A)
Column channel	10 m Al ₂ O ₃ /KCl (p/n 494001440F)
Column temperature	160 °C
Carrier gas	Helium, 28 psi (193 kPa)
Injector temperature	110 °C
Injection time	5 msec
Backflush	0 seconds (Foreflush mode)

For More Information

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