



DVLS Aromatics ASTM D5769 Analyzer

Determines the Benzene and Aromatic Content in Gasoline

To meet the fuel regulations it is essential to determine the Benzene and the Aromatic content in gasoline. Several methods such as ASTM D3606 and D5580 are available. To address the oxygenate interference when analyzing Benzene and aromatics in oxygenated gasoline the ASTM D5769 method was developed. The ASTM D5769 is based on the GC-MS analysis technique and approved by regulatory agencies such as the Environmental Protection Agency (EPA). Da Vinci Laboratory Solutions (DVLS) offers the Aromatics GC-MS solution that complies with ASTM D5769 to determine the Benzene and Aromatic Content in Oxygenated Gasolines.

Application Range

The DVLS Aromatics Analyzer complies with the ASTM D5769 test method to characterize:

- Benzene
- Toluene
- Total Aromatics
- Dicyclopentadiene (DCPD) (optional)
- Carbon Disulfide (CS₂) in naphtha (optional) in oxygenated gasoline.

Component	Concentration Range(%)
Benzene	0.1 - 4
Toluene	1 - 13
Total Aromatics	10 - 42%

Table One: Analysis Range

The DVLS Aromatics Analyzer is based upon the Agilent 8890 Gas Chromatograph (GC) with built-in intelligence and electronic pneumatic control (EPC).



Figure One: The Aromatics ASTM D5769 Analyzer

The Agilent 8890 GC is configured with:

- an Agilent 5977B Mass spectrometer detector with turbo pump
- an Agilent Automatic Liquid Sampler with a 16-position tray
- a non-polar column
- a Split/splitless inlet
- Hydrogen carrier gas (optional)

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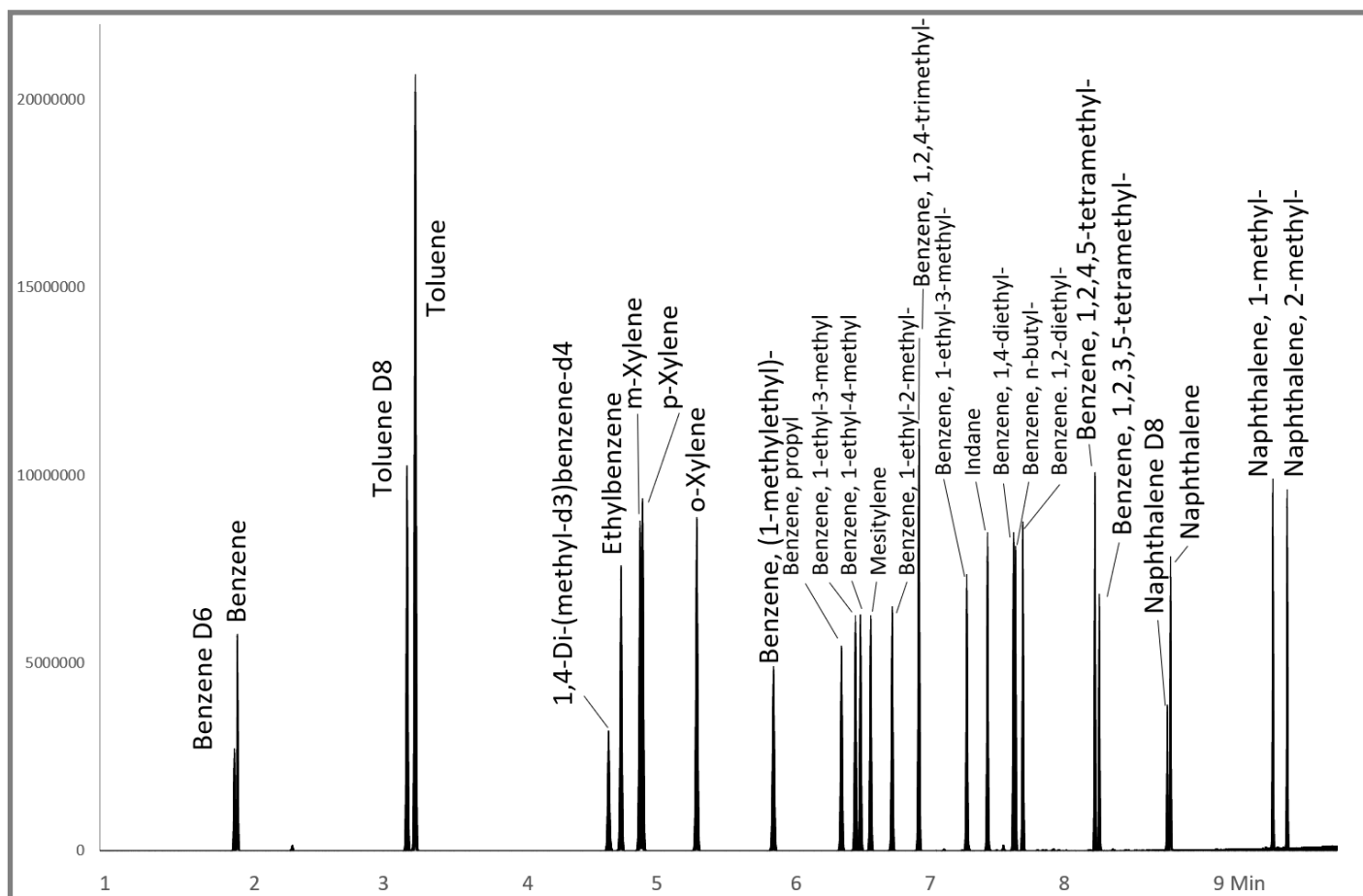


Figure Two: Analysis of Aromatics in Gasoline by ASTM D5769

High level of automation

The Agilent GC-MS is controlled by the Agilent OpenLab CDS MassSpectrometer software, which provides data analysis, reporting and management tools that help you obtain new insights into complex chromatograms—and report your findings clearly.

Key Benefits

- Accurate analysis of aromatics content in oxygenated gasolines
- Analyzer complies with ASTM D5769
- High quality GC hardware based on Agilent platform
- High level of automation using OpenLab CDS
- Dedicated options available to customize your analysis

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DA VINCI LABORATORY SOLUTIONS B.V.
P.O. Box 12103, 3004 GC Rotterdam - The Netherlands
T: +31 (0)10 258 1870 - E-mail: solutions@davinci-ls.com

www.davinci-ls.com