

Application Data Sheet

No. **22**

System Gas Chromatograph

Determination of Benzene and Toluene in Gasoline per ASTM D3606 with Packed Columns

Keywords: D3606; BTA2; BT1; Benzene; Toluene; Gasoline; BTX; BTEX; ADS-022; ADS-023; 220-90870-31

This gas chromatograph is constructed according to ASTM D3606 Procedure B for the determination of benzene and toluene in gasoline by gas chromatography using packed columns.

For the analysis of benzene and toluene, the sample is injected on to Column 1. Column 1 separates light hydrocarbons from benzene and toluene. The switching valve is rotated after iso-octane elutes to Column 2 to backflush the heavier hydrocarbons to vent. Column 2 separates benzene, sec-butyl alcohol, and toluene from the hydrocarbon matrix. The components elute to the TCD.

System Configuration

- One packed inlet
- One 6-port valve
- Packed Columns
- TCD

Analytes

Benzene, Toluene

Method Compliance

ASTM D3606 Procedure B

Concentration Range

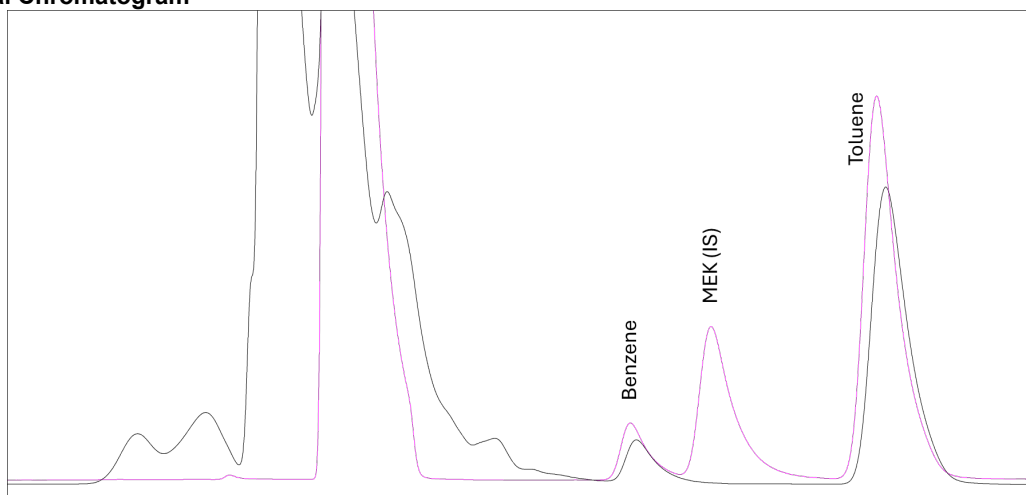
No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	Benzene	0.1%	5%
2	Toluene	2.0%	20%

Detection limit may vary depending on the sample. Please contact us for more consultation.

System Features

- Packed Columns
- Robust hardware

Typical Chromatogram



FID Chromatogram overlay of a standard and gasoline sample for ASTM D3606B

Part number: 220-90870-31

Global Reference: Equivalent to Nexis GC-2030_BTA2 Application Data Sheet 23; Nexis GC-2030_BTA1 Application Data Sheet 22

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