Petrochemical

Sulfur Compounds

DPS Instruments, Inc.

www.dps-instruments.com

The analysis of sulfur containing compounds in petroleum products is drawing more attention around the world as governments are passing regulations for products with lower sulfur concentrations, which lead to lower sulfur emissions. There are a host of problems associated with the sampling and analysis of sulfur compounds. First and foremost is that sulfur compounds degrade on metal surfaces, especially hot metal; making sulfur compounds difficult to store. Secondly, you need to differentiate them from the hydrocarbon mixtures for analysis. The DPS Sulfur GC Analyzers answer these problems with an inert sample path, free of hot metal surfaces, the latest analytical column technology, and the sensitive FPD detector. The DPS Sulfur GC Systems are ideal for your complex hydrocarbon mixtures requiring sensitive sulfur measurements. The fast heating and rapid cooling column oven in every DPS GC assures rapid sample turnaround. The fully integrated Sulfur GC Analyzer Systems are small and lightweight and all DPS systems are modular for expandability, upgrades, and easy service.

Available Configurations Include:

600-C-095 - Series 600 Sulfur Compounds GC Analyzer (FPD, 30m)
500-C2-095 - Companion 2 Portable Sulfur Compounds GC Analyzer (FPD, 30m)

Series 600 GC

Sulfur Compounds

Companion 2 Portable GC

Peak	Component	Area
1	Hydrogen Sulfide	1787.9
2	Carbonyl Sulfide	2639.5
3	Methyl Mercaptan	3484.1
4	Ethyl Mercaptan	284.6
5	Carbon Disulfide	8370.5
6	Dimethyl Sulfide	8031.7
7	2-Propyl Mercaptan	5168.1
8	Allyl Mercaptan	7467.7
9	1-Propyl Mercaptan	7080.3
10	Ethyl Sulfide	3838.2
11	Butyl Mercaptan	1367.3
12	Dimethyl Disulfide	8883.5
13	Allyl Sulfide	8360.7
14	Propyl Sulfide	979.9
15	Butyl Sulfide	874.1