



Petrochemical

Oxygenates in Gasoline - D4815



www.dps-instruments.com

With the dramatic increase in reformulated gasoline production around the world there is an ever increasing demand for the analysis of oxygenates, which are added boost the octane value of these fuels. The DPS Oxygenates GC System uses a polar TCEP pre-column to separate the oxygenates from early eluting hydrocarbons, then back-flushes the retained oxygenates to a high resolution capillary column for separation. Both columns are connected through a 10-port valve and the entire sequence is automated through the Timeline in the DPS Control Software. The identification and quantitation are performed using a sensitive FID detector following ASTM D4815 guidelines. The DPS Oxygenates GC System is configured to quickly detect these oxygenates in less than 15 minutes. The fast heating and rapid cooling column oven in every DPS GC assures rapid sample turnaround. The fully integrated Oxygenates GC Systems are small and lightweight and all DPS systems are modular for expandability, upgrades, and easy service.



Available Configurations Include:

600-C-089 - Series 600 Oxygenates GC Analyzer (FID, Valve, 2m & 30m)

500-C-089 - Companion 1 Portable Oxygenates GC Analyzer (FID, Valve, 2m & 30m)



Series 600 GC



Companion 1 Portable GC

Oxygenates in Gasoline

Peak	Component
1	Methanol
2	Ethanol
3	Isopropanol
4	Tert-Butanol
5	n-Propanol
6	MTBE
7	sec-Butanol
8	DIPE
9	Isobutanol
10	tert-Pentanol
11	DME
12	n-Butanol
13	TAME
14	Heavier Hydrocarbons

