



## ***DPS Consumer Products GC Systems*** - Application Notes

All of these Consumer Products Applications can be analyzed using one of the Custom GC configurations of the Series 600 Lab GC. However, the vast majority can also be analyzed using the Companion 1, or the Companion 2 Portable GC Systems. Best of all, each of these Custom GC Systems gives the same great results. So, whether your analyzing in the Lab, or in the factory, or out in the field, you can rest assured that your Consumer Products results will always be consistent.

### **Alcohol & Spirits GC**

Distilled spirits, wine, and beer all contain flavoring agents, esters, acids, and aldehydes. While the ethanol content is closely monitored and regulated by government agencies, the unique flavor of each spirit is the unique combination of the individual compounds. Other methods can certainly determine the ethanol content, but only Chromatography can measure the ethanol and separate the individual constituents for identification. When you want to know what makes your favorite tequila, rum, or whiskey taste so special you need a DPS Alcohol & Spirits GC System. The latest designed high resolution column and the sensitive FID detector does the hard work for you. The Series 600 GC is for analyses in the lab, or use the Portable Companion 1 GC Systems for analyses right where the samples are taken. The fast heating and rapid

### **Chiral Separations GC**

Basic laws of chemistry state that only a chiral animal, such as Humans, can smell and taste chiral enantiomers. Enantiomeric compounds are structurally equivalent, but are mirror images of one another. An example of chiral objects would be your left and right hands. Tastes and smells of many complex natural food products are dependent on the enantiomeric ratio of chiral compounds. For example, while one enantiomer may be bitter, the other form may be sweet. The ratio of enantiomers in food has become a critical issue over the past few years. We designed the DPS Chiral Separations GC Analyzers specifically to separate the enantiomers and determine the ratios of these compounds. Specially designed columns and the sensitive FID detector do the hard work. The Series 600 GC is for analyses in the lab, or use the

### **Cleaning Solvents GC**

The average cleaning products industry consumer uses a wide range of products to promote both personal and public health. Soaps, detergents, deodorants, mouthwashes, rug cleaners, drain openers, and a host of other products make up this multi-billion dollar worldwide industry. These products are designed to improve personal hygiene, reduce levels of bacteria, improve personal appearance, and offer cleaning convenience for the consumer. To help ensure consistent product performance and environmental safety there is an ongoing need to test the solvents contained on both the raw and final products. The DPS Cleaning Solvents GC Systems, equipped with a high resolution column and the sensitive FID detector is a great place to start. An extra liquid sample can be directly injected by hand, or a fl

cooling column oven in every DPS GC vastly increases your sample throughput. The fully integrated Alcohol & Spirits GC Analyzer Systems are small and lightweight and all Consumer Products DPS systems are modular for expandability, upgrades, and easy service.

#### Example Compounds:

Methanol  
Ethanol  
Acetone  
n-Propanol  
Ethyl Acetate  
sec-Butanol  
iso-Butanol  
iso-Amyl Alcohol



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Portable Companion 1 GC Systems for analyses right where the samples are taken. The fully integrated Chiral Separations GC Analyzer Systems are small and lightweight and all Consumer Products DPS systems are modular for expandability, upgrades, and easy service.

#### Example Compounds:

- a Pinene  
+ a Pinene  
+ b Pinene  
- b Pinene  
- Limonene  
+ Limonene



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solid, or cream sample can be placed in a headspace vial and automatically heated and injected using our built-in Headspace Concentrator. The Series 600 GC is for analyses in the lab, or use the Portable Companion 1 GC Systems for analyses right where the samples are taken. The fully integrated Cleaning Solvents GC Analyzer Systems are small and lightweight and all Consumer Products DPS systems are modular for expandability, upgrades, and easy service.

#### Example Compounds:

Peak Component  
Methanol  
Ethanol  
iso-propanol  
tert-Butanol  
n-Propanol  
iso-Butanol  
Methyl Cellosolve  
n-Butanol  
Cellosolve  
Ethylene Glycol  
Butyl Cellosolve  
Limonene  
DPGMME  
DEGEE  
Phenyl Cellosolve  
TPGMME



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