



# Environmental Organophosphorus Pesticides



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Hundreds of millions of pounds of organophosphorus pesticides are used around the world each year. These pesticides work by interfering with the nervous system of insects; the same mechanism also affects the human nervous system when people are exposed. The health effects of individual organophosphorus pesticides vary; some are highly acutely toxic, some cause development or reproductive harm, and some are known or suspected endocrine disrupters. These compounds are great for killing bugs, but they are also harming our kids. The DPS Organophosphorus Pesticides GC Analyzers are configured using the phosphorus specific FPD detector to identify these pesticides in food and other products. The fast heating and rapid cooling column oven in every DPS GC vastly increases your sample throughput. The fully integrated Organophosphorus Pesticides GC Analyzer systems are small and lightweight and all DPS systems are modular for expandability, upgrades, and easy service.



Series 600 GC

### Available Configurations Include:

- 600-C-029 – Series 600 Organophosphorus Pesticide GC Analyzer (FPD, 30m)
- 500-C2-029 – Companion 2 Portable Organophosphorus Pesticide GC Analyzer (FPD, 30m)

### Organophosphorus Pesticides - 10 ng



Companion 2 Portable GC

Peak	Component	Area
1	Dichlorvos	1199.4
2	Mevinphos	1043.9
3	Dimeton-O	474.2
4	Ethoprop	2884.7
5	Naled	272.5
6	Phorate	1965.0
7	Demeton-S	1674.7
8	Diazinon	1633.3
9	Disulfoton	2127.1
10	Methyl Parathion	2580.1
11	Ronnel	2398.8
12	Fenthion	2332.7
13	Chlorpyrifos	1799.0
14	Trichloronate	1979.9
15	Merphos	327.1
16	Prothiophos	3428.9
17	Fensulfotion	1260.9
18	Sulprofos	1552.6
19	Azinphos-methyl	1431.8

