

GC Application

ID No.: 14945

EPA Method 8270C on Guardian on ZB-5

Column: Zebtron[™] ZB-5 w/GUARDIAN[™], 5 m, GC Cap. Column 30 m x 0.25 mm x 0.25 μ m, Ea

Phase: 5% Phenyl 95% Dimethylpolysiloxane

Dimensions: 30 meters x 0.25 mm x 0.25 μ m

Order No: 7HG-G002-11-GGA

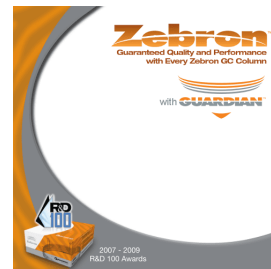
Oven Profile: 50°C for 2 min to 70°C at 20°C/min to 195°C at 16°C/min to 285°C at 30°C/min to 320°C at 6°C/min for 4 min

Carrier Gas: Constant Flow Helium, 0.9 mL/min

Injection: Split 10:1 1 μ L @ 250°C

Detection: Mass Selective (MSD) (240°C)

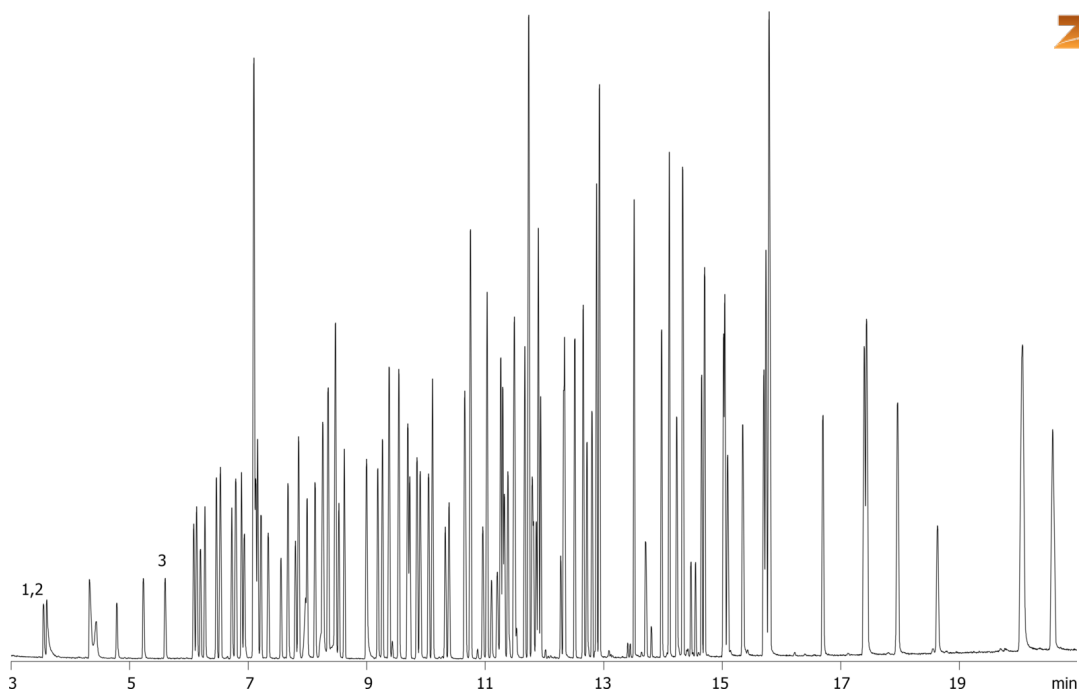
Analyst Note: EPA Method 8270C protocol was followed



Products used in this application:



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ANALYTES:

1	N-Nitrosodimethylamine	41	N-Nitrosodibutylamine	81	Pentachlorophenol
2	Pyridine	42	4-Chloro-3-methylphenol	82	Pentachloronitrobenzene
3	2-Picoline	43	Safrole	83	Phenanthrene
4	N-Nitrosomethylethylamine	44	2-Methylnaphthalene	84	Dinoseb
5	Methyl methanesulfonate	45	1-Methylnaphthalene	85	Anthracene
6	N-Nitrosodiethylamine	46	1,2,4,5-Tetrachlorobenzene	86	Di-n-butyl phthalate
7	Ethyl methanesulfonate	47	Hexachlorocyclopentadiene	87	4-Nitroquinoline-n-oxide
8	Phenol	48	2,4,6-Trichlorophenol	88	Methapyrilene
9	Aniline	49	2,4,5-Trichlorophenol	89	Isodrin
10	bis(2-Chloroethyl)ether	50	Isosafrole	90	Fluoranthene
11	2-Chlorophenol	51	2-Chloronaphthalene	91	Benzidine
12	1,3-Dichlorobenzene	52	2-Nitroaniline	92	Pyrene
13	1,4-Dichlorobenzene	53	1,4-Naphthoquinone	93	Aramite
14	Benzyl alcohol	54	Dimethyl phthalate	94	Aramite
15	1,2-Dichlorobenzene	55	1,3-Dinitrobenzene	95	Dimethylaminoazobenzene
16	2-Methylphenol	56	2,6-Dinitrotoluene	96	Chlorobenzilate
17	bis(Chloroisopropyl)ether	57	Acenaphthylene	97	3,3-Dimethylbenzidine
18	4-Methylphenol / 3-Methylphenol	58	3-Nitroaniline	98	Benzyl butyl phthalate
19	N-Nitrosopyrrolidine	59	Acenaphthene	99	Kepone
20	Acetophenone	60	2,4-Dinitrophenol	100	2-Acetylaminofluorene
21	N-Nitrosomorpholine	61	4-Nitrophenol	101	3,3'-Dichlorobenzidine
22	N-Nitroso-di-n-propylamine	62	Dibenzofuran	102	Benz[a]anthracene
23	2-Toluidine	63	Pentachlorobenzene	103	bis(2-Ethylhexyl)phthalate
24	Hexachloroethane	64	2,4-Dinitrotoluene	104	Chrysene
25	Nitrobenzene	65	1-Naphthalenamine	105	Di-n-octyl phthalate
26	N-Nitrosopiperidine	66	2-Naphthalenamine	106	Benzo[b]fluoranthene
27	Isophorone	67	2,3,4,6-Tetrachlorophenol	107	Benzo[k]fluoranthene
28	2-Nitrophenol	68	Diethyl phthalate	108	Benzo[a]pyrene
29	2,4-Dimethylphenol	69	Fluorene	109	3-Methylcholanthrene
30	Benzoic acid	70	4-Chlorophenylphenylether	110	Indeno[1,2,3-cd]pyrene
31	bis(2-Chloroethoxy)methane	71	2-Methyl-5-nitroaniline	111	Dibenz[a,h]anthracene
32	2,4-Dichlorophenol	72	4-Nitroaniline	112	Benzo[g,h,i]perylene
33	alpha,alpha-Dimethylphenylamine	73	2-Methyl-4,6-dinitrophenol		
34	1,2,4-Trichlorobenzene	74	Diphenylamine		
35	Naphthalene	75	Azobenzene		
36	4-Chloroaniline	76	1,3,5-Trinitrobenzene		
37	2,6-Dichlorophenol	77	Phenacetin		
38	Hexachloropropene	78	4-Bromophenylphenylether		
39	Hexachloro-1,3-butadiene	79	Hexachlorobenzene		
40	1,4-Phenylenediamine	80	4-Aminobiphenyl		

