

GC Application

ID No.: 20582

EPA Method 8270D on Zebron ZB-SemiVolatiles

Column: Zebron™ ZB-SemiVolatiles, GC Cap. Column 30 m x 0.25 mm x 0.25 μm, Ea

Phase: 5% Phenyl-Arylene 95% Dimethylpolysiloxane (Enviro-Inert)

Dimensions: 30 meters x 0.25 mm x 0.25 μm

Order No: 7HG-G027-11

Oven Profile: 40 °C for 0.5 min to 260 °C @ 40 °C/min to 295 °C @ 6 °C/min to 325 °C @ 25 °C/min for 2 min

Carrier Gas: Constant Flow Helium, 1.4 mL/min

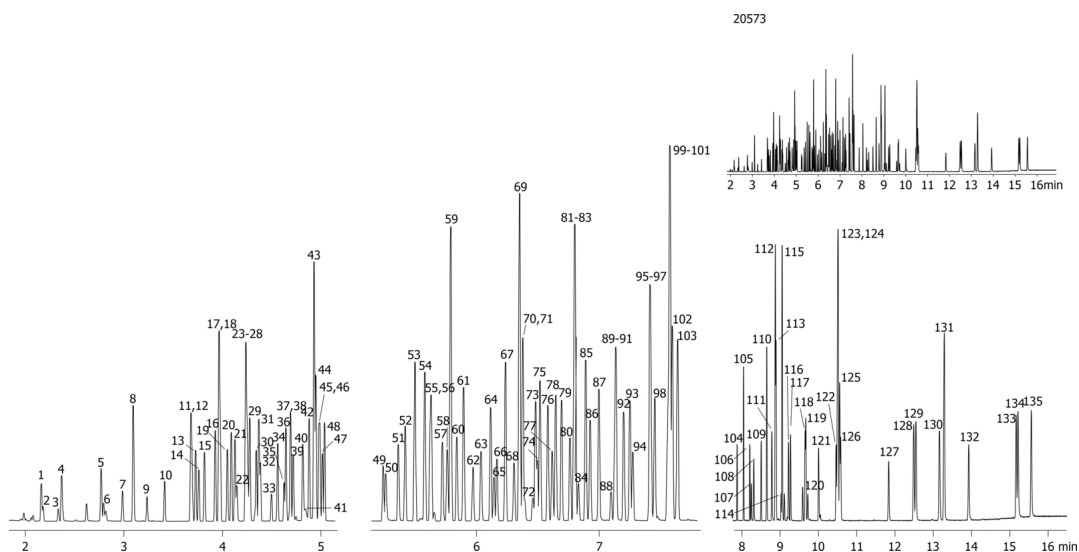
Injection: Split 10:1 1 μL @ 280°C

Detection: Mass Selective (MSD) (340°C)

Analyst Note: Analytes @ 25ppm in Dichloromethane
Pulsed Split injection @ 25 p.s.i.
Liner: AG0-8499 (Single Taper with Wool)
Septum: AG0-4697 (PhenoRed™-400)
Inlet Base Seal: AG0-8620 (Easy Seals™)



Products used in this application:



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ANALYTES:

1	1,4-Dioxane-d8	41	alpha,alpha-Dimethylphenethylamine	81	4-Chlorodiphenyl ether
2	1,4-Dioxane	42	1,2,4-Trichlorobenzene	82	Fluorene
3	N-Nitrosodimethylamine	43	Naphthalene-d8	83	4-Nitroaniline
4	Pyridine	44	Naphthalene	84	2-Methyl-4,6-dinitrophenol
5	2-Picoline	45	4-Chloroaniline	85	Diphenylamine
6	N-Nitrosomethylethylamine	46	2,6-Dichlorophenol	86	Azobenzene
7	Methyl methanesulfonate	47	Hexachloropropene	87	2,4,6-Tribromophenol
8	2-Fluorophenol	48	Hexachlorobutadiene	88	1,3,5-Trinitrobenzene
9	N-Nitrosodiethylamine	49	N-Nitrosodi-n-butylamine	89	Di-allate
10	Ethyl methanesulfonate	50	p-Phenylenediamine	90	Phorate
11	Phenol-d5	51	4-Chloro-3-methylphenol	91	Phenacetin
12	Phenol	52	Isosafrole	92	4-Bromophenyl phenyl ether
13	Aniline	53	2-Methylnaphthalene	93	Hexachlorobenzene
14	bis(2-Chloroethyl)ether	54	1-Methylnaphthalene	94	Dimethoate
15	2-Chlorophenol	55	Hexachlorocyclopentadiene	95	4-Aminobiphenyl
16	1,3-Dichlorobenzene	56	1,2,4,5-Tetrachlorobenzene	96	Pentachloronitrobenzene
17	1,4-Dichlorobenzene-D4	57	2,4,6-Trichlorophenol	97	Pentachlorophenol
18	1,4-Dichlorobenzene	58	2,4,5-Trichlorophenol	98	Pronamide
19	Benzyl alcohol	59	2-Fluorobiphenyl	99	Dinoseb
20	1,2-Dichlorobenzene	60	Safrole	100	Disulfoton
21	2-Methylphenol	61	2-Chloronaphthalene	101	Phenanthrene-d10
22	bis(2-Chloro-1-methylethyl)ether	62	2-Nitroaniline	102	Phenanthrene
23	3-Methylphenol	63	1,4-Naphthoquinone	103	Anthracene
24	4-Methylphenol	64	Dimethyl phthalate	104	Methyl parathion
25	N-Nitrosopyrrolidine	65	1,3-Dinitrobenzene	105	Di-n-butyl phthalate
26	N-Nitrosodi-n-propylamine	66	2,6-Dinitrotoluene	106	Parathion
27	Acetophenone	67	Acenaphthylene	107	4-Nitroquinoline-1-oxide
28	N-Nitrosomorpholine	68	3-Nitroaniline	108	Methapyrilene
29	o-Toluidine	69	Acenaphthene-d10	109	Isodrin
30	Hexachloroethane	70	2,4-Dinitrophenol	110	Fluoranthene
31	Nitrobenzene-d5	71	Acenaphthene	111	Benzidine
32	Nitrobenzene	72	4-Nitrophenol	112	Pyrene-d10
33	N-Nitrosopiperidine	73	Pentachlorobenzene	113	Pyrene
34	Isophorone	74	2,4-Dinitrotoluene	114	Aramite
35	2-Nitrophenol	75	Dibenzofuran	115	p-Terphenyl-d14
36	2,4-Dimethylphenol	76	1-Naphthylamine	116	p-Dimethylaminoazobenzene
37	Benzoic acid	77	2,3,4,6-Tetrachlorophenol	117	Chlorobenzilate
38	O,O,O-Triethylphosphorothioate	78	2-Naphthylamine	118	o-Tolidine
39	bis(2-Chloroethoxy)methane	79	Diethyl phthalate	119	Butyl benzyl phthalate
40	2,4-Dichlorophenol	80	Thionazin	120	Kepone
				121	2-Acetylaminofluorene
				122	3,3'-Dichlorobenzidine
				123	Benz[a]anthracene
				124	Chrysene-d12
				125	Chrysene
				126	bis(2-Ethylhexyl)phthalate
				127	Diethyl phthalate
				128	Benzo[b]fluoranthene
				129	Benzo[k]fluoranthene
				130	Benzo[a]pyrene
				131	Benzo[e]pyrene

