

Tire Chip Use in Playgrounds

An Appropriate Use?



Presented to: Snowy Range Academy Board
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Here is what we know so far...

- News outlets have reported on young athletes diagnosed with cancers with their common trait that they played on fields using crumb rubber derived from tire scrap
- Tires have known carcinogens, neurotoxins, etc.
- Despite suppliers claims, these toxicants are bio-available (more later)
- EPA and CPSC recalled their assurances of its chemical safety for children
- No long-term studies have been conducted

Here is what I know...

- Risk analyses are based upon dose-response data derived from animal studies and are extrapolated to humans which leaves a lot of room for uncertainty
 - For instance Safety Factors can vary 4 orders of magnitude
- Synergistic effects are known to occur (both additive and multiplicative)
- Children can react differently to toxicants and are particularly susceptible to carcinogens since their bodies are actively growing

Here is what I have learned...

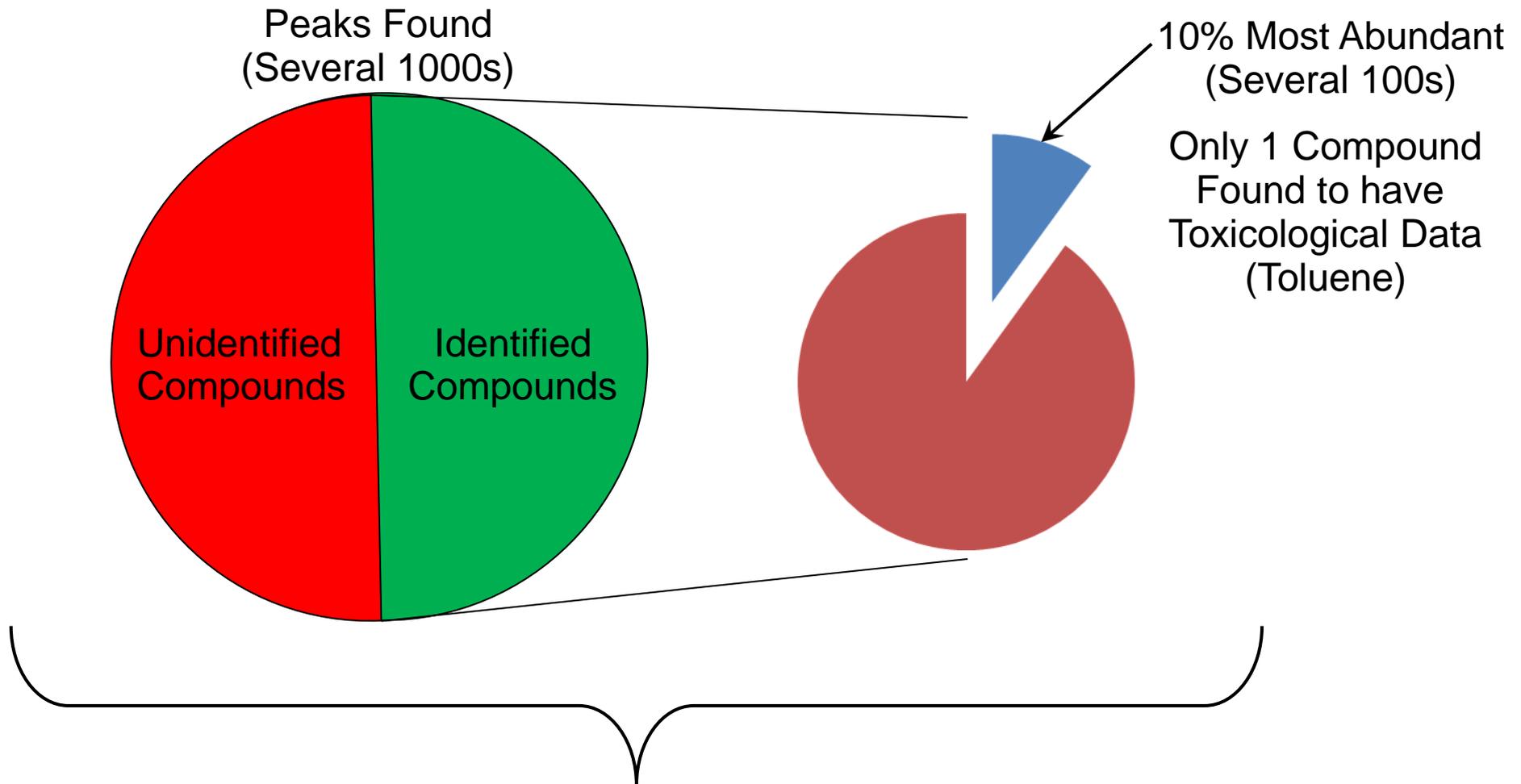
- Zhang et al. (2008) measured PAHs levels above health-based soil standards
- Chemical make-up is highly variable
- Risk analyses to-date have been based on a very limited number of target compounds and have neglected synergistic (additive and multiplicative) effects

Zhang, J., Han, I.-K., Zhang, L., Crain, W., 2008. Hazardous chemicals in synthetic turf materials and their bioaccessibility in digestive fluids. *J. Exposure Sci. Environ. Epidemiol.* 18, 600–607.

Here is what I have learned...

- Studies conducted thus far have been very limited in scope:
 - Of the several hundred most abundant SVOC (includes PAHs) present in synthetic bio-fluids exposed to crumb rubber, only 1 had toxicological data (Toluene)
 - The rest are complete unknowns
 - These several hundred SVOCs constituted only 10% of the compounds identified from a database of 64,000 compounds
 - ~50% of the unique compounds found could not be identified

What does that mean?



1000s of known and unknown chemicals
with unknown toxicological effects that are bio-available

Digestive Extract

Peak Name	Amount/RFRT (min)	Status	Result Type	Area	Calculated Amount (ug/L)
(2-Aziridinylethyl)amine	0.404	0.865	TIC	2.39E+06	0.05
Benzeneethanamine, 2,5-dimethoxy-tr(4-dimethyl)-	0.355	0.867	TIC	4.72E+06	0.10
cis-4-Hydroxy-3-methyldecanoic acid lactone	2.236	7.956	TIC	2.97E+07	0.68
2,2'-Bibenzothiazole	1.154	14.524	TIC	1.53E+07	0.35
3-Methylcyclopentadecylcarbamate, t-butyl ester	0.182	14.781	TIC	2.41E+06	0.05
Phenol, 3,5-bis(1,1-dimethylethyl)-	2.14	23.696	TIC	2.84E+07	0.63
7,9-Di-tert-butyl-1-oxaspiro[4,5]deca-6,9-diene-2,8-dione	0.088	33.056	TIC	1.17E+06	0.02
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.101	55.202	TIC	1.35E+06	0.02
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.108	56.292	TIC	1.43E+06	0.02
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.761	57.218	TIC	1.01E+07	0.22
10-(Methoxycarbonyl)-N-acetylcolchinal	0.74	58.084	TIC	9.83E+06	0.21
Dihydromorphine, di(trimethylsilyl) ether	0.665	58.352	TIC	8.83E+06	0.19
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.549	58.441	TIC	7.29E+06	0.16
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.64	59.095	TIC	8.50E+06	0.18
Pregnane-3,11,12,14,20-pentol, 3,12,20-triacetate 11-benzoate, (3R11R12R14R20R)	0.153	60.842	TIC	2.03E+06	0.04
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]-3-methyl-5-phenyl-1-(trimethylsilyl)-	0.436	61.547	TIC	5.79E+06	0.12
Cholest-5-ene, 3-(hexadecyloxy)-, (3R)-	0.134	7.217	TIC	1.61E+06	0.03
Cyclopenladecanone, 2-methyl-	0.135	7.347	TIC	1.62E+06	0.03
Allyl 2-ethyl butyrate	3.174	7.951	TIC	3.80E+07	0.88
2,4,4-Trimethyl-3-(3-methylbuta-1,3-dienyl)cyclohexanone	0.112	20.666	TIC	1.34E+06	0.03
Benzenethiol, 4-(1,1-dimethylethyl)-2-methyl-	0.089	22.666	TIC	1.07E+06	0.02
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0.119	23.019	TIC	1.42E+06	0.03
Phenol, 3,5-bis(1,1-dimethylethyl)-	2.298	23.693	TIC	2.75E+07	0.61
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.349	0.868	TIC	3.82E+06	0.08
Furan, tetrahydro-2,2,4,4-tetramethyl-	0.094	2.392	TIC	1.03E+06	0.02
Decane, 2,6,8-trimethyl-	3.179	7.943	TIC	3.48E+07	0.80
(1,1'-Bicyclopropyl)-2-octanoic acid, 2'-hexyl-, methyl ester	0.351	14.783	TIC	3.85E+06	0.08
Quinoline, 7-methyl-	0.383	17.404	TIC	4.20E+06	0.09
4-Tripropylsilyloxypentadecane	0.14	17.471	TIC	1.54E+06	0.03
2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-phenyl-	0.147	17.497	TIC	1.62E+06	0.03
2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-phenyl-	0.099	17.631	TIC	1.08E+06	0.02
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0.094	23.017	TIC	1.03E+06	0.02
Phenol, 2,4-bis(1,1-dimethylethyl)-	2.626	23.685	TIC	2.88E+07	0.66
7,9-Di-tert-butyl-1-oxaspiro[4,5]deca-6,9-diene-2,8-dione	0.105	33.052	TIC	1.15E+06	0.02
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.355	0.865	TIC	3.61E+06	0.08
Decane, 2,5,6-trimethyl-	13.13	5.662	TIC	1.34E+08	3.10
3-Octanone	3.266	7.954	TIC	3.32E+07	0.76
3-Hydroxy picolinic TMS 2	1.432	14.52	TIC	1.46E+07	0.33
3-Methylcyclopentadecylcarbamate, t-butyl ester	0.21	14.791	TIC	2.13E+06	0.04
Phenol, 2,5-bis(1,1-dimethylethyl)-	2.771	23.688	TIC	2.82E+07	0.65
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.205	0.862	TIC	1.61E+06	0.03
Decane, 2,5,6-trimethyl-	13.51	5.659	TIC	1.06E+08	2.45
2-Hexanone, 3,4-dimethyl-	0.133	7.356	TIC	1.05E+06	0.02
Decane, 2,6,6-trimethyl-	4.845	7.952	TIC	3.81E+07	0.88
2,2'-Bibenzothiazole	2.072	14.521	TIC	1.63E+07	0.37
3-Methylcyclopentadecylcarbamate, t-butyl ester	0.502	14.783	TIC	3.95E+06	0.09
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.58	23.686	TIC	2.82E+07	0.65
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.306	0.865	TIC	2.36E+06	0.05
2,4-Dimethyl-1-heptene	0.147	3.862	TIC	1.13E+06	0.02
1-Octanol, 2-butyl-	11.3	5.649	TIC	8.69E+07	2.01
8-Hydroxy-2-octanone	0.154	7.214	TIC	1.19E+06	0.02
Decane, 2,6,8-trimethyl-	4.154	7.947	TIC	3.20E+07	0.74
3-Hydroxy picolinic TMS 2	1.276	14.519	TIC	9.81E+06	0.22
3-Methylcyclopentadecylcarbamate, t-butyl ester	0.274	14.782	TIC	2.11E+06	0.04
2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-phenyl-	0.159	17.483	TIC	1.23E+06	0.02
7-Methoxy-2,2,4,8-tetramethyltricyclo[5.3.1.0(4,11)]undecane	0.181	22.066	TIC	1.39E+06	0.03
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0.151	23.019	TIC	1.17E+06	0.02
Phenol, 2,5-bis(1,1-dimethylethyl)-	4.081	23.686	TIC	3.14E+07	0.70
7,9-Di-tert-butyl-1-oxaspiro[4,5]deca-6,9-diene-2,8-dione	0.139	33.055	TIC	1.07E+06	0.02
Estra-1,3,5(10)-trien-17-one, 3,4-bis(trimethylsilyloxy)-	0.378	37.3	TIC	2.91E+06	0.06
Decane, 2,5,6-trimethyl-	8.211	5.64	TIC	7.00E+07	1.62
3,5-Dimethyl-2-octanone	0.131	7.344	TIC	1.11E+06	0.02
Decane, 2,6,8-trimethyl-	4.647	7.939	TIC	3.96E+07	0.91
2,2'-Bibenzothiazole	1.615	14.514	TIC	1.38E+07	0.31
8,11,14-Eicosatrienoic acid, methyl este	0.357	14.782	TIC	3.04E+06	0.07
Demeton-O	0.15	17.403	TIC	1.28E+06	0.02
2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-5-phenyl-	0.215	17.471	TIC	1.84E+06	0.04
1H-Indole, 1,3-dimethyl-5,6-dimethoxy-2-	0.214	17.545	TIC	1.82E+06	0.04

Benzo[a]pentacene	0.145	20.541	TIC	1.24E+06	0.02
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.311	23.679	TIC	2.82E+07	0.63
3-Methyl-2-(4-nitro-phenyl)-4-oxo-1,2,3,4-tetrahydro-phthalazin-1-yl]-acetic acid, methyl ester	0.24	58.506	TIC	2.05E+06	0.04
(2-Aziridinylethyl)amine	0.324	0.86	TIC	1.31E+06	0.03
Furan, tetrahydro-2,5-dipropyl-	0.267	2.391	TIC	1.08E+06	0.02
2,4-Dimethyl-1-heptene	0.398	3.869	TIC	1.60E+06	0.03
Decane, 2,5,6-trimethyl-	19.65	5.648	TIC	7.91E+07	1.83
8-Hydroxy-2-octanone	0.362	7.214	TIC	1.46E+06	0.03
5,9-Dodecadien-2-one, 6,10-dimethyl-, (E,E)-	0.361	7.344	TIC	1.45E+06	0.03
3-Hexanone, 5-methyl-	8.007	7.944	TIC	3.22E+07	0.74
5H-Dibenzo[c,g]carbazole, 6,7-dihydro-	0.261	13.91	TIC	1.05E+06	0.02
7-Methoxy-2,2,4,8-tetramethyltricyclo[5.3.1.0(4,11)]undecane	0.453	22.655	TIC	1.82E+06	0.04
Quinoline, 2,2-dihydro-2,2,4-trimethyl-	0.794	22.75	TIC	3.19E+06	0.07
Phenol, 2,5-bis(1,1-dimethylethyl)-	7.278	23.685	TIC	2.93E+07	0.65
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.206	0.862	TIC	1.61E+06	0.03
2,4-Dimethyl-1-heptene	0.201	3.868	TIC	1.57E+06	0.03
Hexane, 2,4-dimethyl-	5.999	5.645	TIC	4.71E+07	1.09
8-Hydroxy-2-octanone	0.163	7.213	TIC	1.28E+06	0.02
2-Hexanone, 3,4-dimethyl-	0.178	7.349	TIC	1.40E+06	0.03
Decane, 2,6,8-trimethyl-	3.717	7.943	TIC	2.92E+07	0.67
3-Hydroxy picolinic TMS 2	1.698	14.517	TIC	1.33E+07	0.30
9-Octadecenoic acid, 2-phenyl-1,3-dioxan-5-yl ester	0.154	14.808	TIC	1.21E+06	0.02
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.308	23.682	TIC	2.60E+07	0.58
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.313	0.859	TIC	1.65E+06	0.03
2-Hexanone, 3,4-dimethyl-	0.19	7.357	TIC	1.00E+06	0.02
Decane, 2,6,6-trimethyl-	5.382	7.948	TIC	2.84E+07	0.65
2,2'-Bibenzothiazole	2.489	14.517	TIC	1.31E+07	0.30
Cyclopentanone, 2-acetyl-3,3-dimethyl-2-	0.202	22.655	TIC	1.07E+06	0.02
Phenol, 2,5-bis(1,1-dimethylethyl)-	6.597	23.682	TIC	3.48E+07	0.80
2-Nonadecanone	0.222	28.144	TIC	1.17E+06	0.02
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.174	0.861	TIC	1.33E+06	0.03
2,4-Dimethyl-1-heptene	0.185	3.868	TIC	1.41E+06	0.03
Decane, 2,5,6-trimethyl-	3.878	5.643	TIC	2.95E+07	0.68
Decane, 2,6,6-trimethyl-	3.074	7.942	TIC	2.88E+07	0.66
Hexadecanal, 2-methyl-	0.265	23.606	TIC	2.01E+06	0.04
Phenol, 2,5-bis(1,1-dimethylethyl)-	4.672	23.679	TIC	3.55E+07	0.79
Ethanol, 2-(9-octadecenoxy)-, (Z)-	0.177	57.818	TIC	1.19E+06	0.02
13-Heptadecyn-1-ol	0.137	27.662	TIC	1.04E+06	0.02
2-Pentadecanone	0.201	28.134	TIC	1.53E+06	0.03
13-Docosenoic acid, methyl ester	0.146	7.203	TIC	1.05E+06	0.02
3-Heptanone, 5-methyl-	3.968	7.932	TIC	2.87E+07	0.66
2,2'-Bibenzothiazole	1.576	14.506	TIC	1.14E+07	0.26
Phenol, 3,5-bis(1,1-dimethylethyl)-	3.232	23.675	TIC	2.34E+07	0.52
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.243	0.86	TIC	1.55E+06	0.03
Decane, 2,5,6-trimethyl-	2.931	5.633	TIC	1.87E+07	0.43
8-Hydroxy-2-octanone	0.202	7.204	TIC	1.29E+06	0.02
2-Hexanone, 3,4-dimethyl-	0.254	7.339	TIC	1.62E+06	0.03
3-Heptanone, 5-methyl-	5.611	7.939	TIC	3.58E+07	0.83
1-Hexene, 3,5-dimethyl-	1.081	11.587	TIC	6.90E+06	0.15
2,2'-Bibenzothiazole	1.868	14.509	TIC	1.19E+07	0.27
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0.191	23.01	TIC	1.22E+06	0.02
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.248	23.675	TIC	2.07E+07	0.46
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.202	0.863	TIC	1.17E+06	0.02
Oxalic acid, heptyl isohexyl ester	2.867	5.63	TIC	1.66E+07	0.38
3-Hexanone, 5-methyl-	5.589	7.936	TIC	3.24E+07	0.75
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	2.165	8.603	TIC	1.25E+07	0.28
1-Hexene, 3,5-dimethyl-	1.422	11.595	TIC	2.44E+06	0.05
3-Hydroxy picolinic TMS 2	2.057	14.511	TIC	1.19E+07	0.27
3-Methylcyclopentadecylcarbamate, t-butyl ester	0.489	14.772	TIC	2.83E+06	0.06
7-Methoxy-2,2,4,8-tetramethyltricyclo[5.3.1.0(4,11)]undecane	0.176	22.653	TIC	1.02E+06	0.02
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	0.276	23.01	TIC	1.60E+06	0.03
Phenol, 2,4-bis(1,1-dimethylethyl)-	2.978	23.679	TIC	1.73E+07	0.38
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.158	0.869	TIC	1.01E+06	0.02
Decane, 2,5,6-trimethyl-	2.321	5.629	TIC	1.48E+07	0.33
8-Hydroxy-2-octanone	0.175	7.204	TIC	1.11E+06	0.02
2-Hexanone, 3,4-dimethyl-	0.18	7.345	TIC	1.15E+06	0.02
3-Octanone	4.023	7.935	TIC	2.56E+07	0.59
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	1.409	8.601	TIC	8.97E+06	0.20
3-Hydroxy picolinic TMS 2	1.366	14.516	TIC	8.70E+06	0.20
Isoquinolin-6,7-diol-, 3,4-dihydro-1-[[4-hydroxyphenyl]methyl]-	0.159	14.732	TIC	1.01E+06	0.02
Ethanol, 2-(2-butoxyethoxy)-, acetate	0.345	20.949	TIC	2.19E+06	0.05

Digestive Extract

Phenol, 2,5-bis(1,1-dimethylethyl)-	3.014	23.681	TIC	1.92E+07	0.43
8-Hydroxy-2-octanone	0.174	7.208	TIC	1.03E+06	0.02
2-Hexanone, 3,4-dimethyl-	0.184	7.343	TIC	1.09E+06	0.02
Decane, 2,6,6-trimethyl-	4.049	7.94	TIC	2.39E+07	0.55
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	2.372	8.607	TIC	1.40E+07	0.32
Cyclopropane, pentyl-	0.472	13.393	TIC	2.79E+06	0.06
3-Hydroxy picolinic TMS 2	1.662	14.519	TIC	9.81E+06	0.22
2-Oxepanone, 7-butyl-	0.317	19.08	TIC	1.88E+06	0.04
(Z)6,(Z)9-Pentadecadien-1-ol	0.201	23.077	TIC	1.19E+06	0.02
Phenol, 2,5-bis(1,1-dimethylethyl)-	3.988	23.682	TIC	2.36E+07	0.53
Ethanol, 2-(9,12-octadecadienyloxy)-, (Z,Z)-	0.23	27.665	TIC	1.36E+06	0.02
4-(4-Ethoxycarbonylbuta-1,3-dienyl)-1-methyl-2,5-diphenyl-1H-pyrrole-3-carboxylic acid, ethyl este	0.178	59.318	TIC	1.05E+06	0.02
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.75	0.87	TIC	4.57E+06	0.10
8-Hydroxy-2-octanone	0.175	7.215	TIC	1.06E+06	0.02
3,5-Dimethyl-2-octanone	0.182	7.354	TIC	1.11E+06	0.02
3-Heptanone, 5-methyl-	3.967	7.946	TIC	2.42E+07	0.56
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	2.251	8.613	TIC	1.37E+07	0.31
3-Undecene, 9-methyl-, (Z)-	0.243	11.612	TIC	1.48E+06	0.03
3-Hydroxy picolinic TMS 2	1.592	14.52	TIC	9.70E+06	0.22
(R)-(-)(Z)-14-Methyl-8-hexadecen-1-ol	2.04	23.057	TIC	1.24E+07	0.28
No Match	0.257	23.329	Unknown	1.57E+06	0.03
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.898	23.683	TIC	2.38E+07	0.53
Benzene, (1-ethylnonyl)-	0.204	27.087	TIC	1.24E+06	0.02
Hexadecanal, 2-methyl-	0.203	28.14	TIC	1.23E+06	0.02
Hexestrol	0.19	28.252	TIC	1.16E+06	0.02
1,3-Cyclopentadiene, 2,3,4,5-tetramethyl	0.273	28.428	TIC	1.67E+06	0.03
2,4,6-Trimethylmandelic acid	0.203	28.555	TIC	1.24E+06	0.02
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.242	0.864	TIC	1.45E+06	0.03
Decane, 2,6,6-trimethyl-	3.381	7.945	TIC	2.02E+07	0.46
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	0.585	8.615	TIC	3.50E+06	0.08
3-Hydroxy picolinic TMS 2	1.109	14.521	TIC	6.63E+06	0.15
Ethanol, 2-(9,12-octadecadienyloxy)-, (Z,Z)-	0.219	23.073	TIC	1.31E+06	0.03
Phenol, 2,5-bis(1,1-dimethylethyl)-	4.925	23.684	TIC	2.95E+07	0.66
9-Hexadecenoic acid, 9-hexadecenyl ester	0.184	27.727	TIC	1.10E+06	0.02
Benzophenone, 4,4'-bis(trimethylsilyl)amino]-	0.299	34.657	TIC	1.79E+06	0.03
Estra-1,3,5(10)-trien-17-one, 3,4-bis(trimethylsilyloxy)-	0.305	37.295	TIC	1.82E+06	0.03
2,5-Dimethylhexane-2,5-dihydroperoxide	0.184	7.215	TIC	1.11E+06	0.02
Decane, 2,6,6-trimethyl-	3.539	7.947	TIC	2.13E+07	0.49
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	1.233	8.612	TIC	7.41E+06	0.17
2,2'-Bibenzothiazole	1.545	14.525	TIC	9.29E+06	0.21
Phenol, 2,5-bis(1,1-dimethylethyl)-	3.246	23.689	TIC	1.95E+07	0.43

Lung Extract

Peak Name	Amount/RF	RT (min)	Status	Result Typ/Area	Calculated Amount (ug/L)							
No Match		0.015	0.127	Unknown	412029	0.20						
2-[(1-Hexadecylpyrrolidin-2-ylideneamino)-(4-methoxyphenyl		0.013	0.695	TIC	369761	0.18	N-Benzyl-2-[(1-(4-methoxy-phenyl)-1H-tetrazol-5-ylsulfanyl)-a	0.029	21.189	TIC	784915	0.38
Thieno[2,3-d]pyrimidin-4(3H)-one, 2-amino-6-ethyl-3-methyl-		0.072	0.753	TIC	1.98E+06	0.97	N-Benzyl-2-[(1-(4-methoxy-phenyl)-1H-tetrazol-5-ylsulfanyl)-a	0.056	21.246	TIC	1.54E+06	0.75
Rhodoviolascin		0.031	0.808	TIC	843203	0.41	N-Benzyl-2-[(1-(4-methoxy-phenyl)-1H-tetrazol-5-ylsulfanyl)-a	0.02	21.284	TIC	540833	0.26
Molybdenum, di-ae-chlorobis[(1,2,3,4,5,6-ü)-methylbenzene]		0.031	0.837	TIC	852377	0.42	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.011	21.312	TIC	313593	0.15
à-N-Acetylneuraminic acid, methyl ester-2-methyl-7,9-methyl		0.029	0.977	TIC	783296	0.38	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.023	21.382	TIC	644276	0.31
Glucobrassicin		0.038	1.024	TIC	1.05E+06	0.51	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.007	21.415	TIC	196218	0.09
Crinan-6,11-diol, 1,2-didehydro-3-methoxy-, (3à,5à,6à,11R,		0.007	1.072	TIC	202603	0.10	No Match	0.024	21.977	Unknown	649218	0.32
N,N'-o-Phenylenebis(5,5,5-trifluoro-4-oxopentan-2-iminato)c		0.02	1.093	TIC	538591	0.26	Hexestrol	0.007	24.292	TIC	200878	0.10
N,N'-o-Phenylenebis(5,5,5-trifluoro-4-oxopentan-2-iminato)c		0.017	1.177	TIC	460857	0.22	Hexestrol	0.005	24.32	TIC	140753	0.07
N-Formyl-D-threo-O-methylthreonine		0.015	1.295	TIC	398594	0.19	2-(Trifluoromethyl)benzoic acid, 4-hexadecyl ester	0.046	25.583	TIC	1.27E+06	0.62
2-Hexene, 3,5-dimethyl-		0.093	1.771	TIC	2.55E+06	1.25	Rhodopin	0.015	27.024	TIC	414824	0.20
3-Hydroxybutanamide, N-phenylmethoxy-		0.102	1.927	TIC	2.80E+06	1.37	Myristic acid, 2-(trimethylsiloxy)-1-[(trimethylsiloxy)methyl]etl	0.175	49.907	TIC	4.79E+06	2.35
Benzylloxymethylimine		0.059	1.976	TIC	1.62E+06	0.79	No Match	0.015	49.967	Unknown	413152	0.20
1-Methyl-2-phenylbenzimidazole		0.189	2.364	TIC	5.19E+06	2.55	No Match	0.022	50.947	Unknown	604947	0.30
1,4-Benzenediol, 2,6-bis(1,1-dimethylethyl)-		0.067	2.474	TIC	1.84E+06	0.90	No Match	0.086	51.587	Unknown	2.35E+06	1.15
Cyclopentanol, 3-methyl-		0.004	3.887	TIC	97033	0.05	No Match	0.026	51.641	Unknown	722668	0.35
1-tert-Butoxy-2-methoxyethane		0.02	4.118	TIC	552677	0.27	No Match	0.016	51.678	Unknown	446098	0.22
2,5-Dimethylhexane-2,5-dihydroperoxide		0.776	5.692	TIC	2.13E+07	10.47	No Match	0.017	51.809	Unknown	460906	0.22
N-2,4-Dnp-L-arginine		0.002	5.869	TIC	46110	0.02	No Match	0.018	52.011	Unknown	494485	0.24
Pyrollidine, 1-(1-oxo-2,5-octadecadienyl)-		0.021	7.579	TIC	580536	0.28	No Match	0.022	52.094	Unknown	600506	0.29
Didemin B		0.013	7.989	TIC	365425	0.18	No Match	0.022	52.133	Unknown	601611	0.29
4-Keto-3,3-dimethylhexanoic acid, ethyl		0.468	8.256	TIC	1.28E+07	6.30	No Match	0.015	52.264	Unknown	414905	0.20
Acetylhydrazide, N2-(1,2-dimethylpropylideno)-		0.17	8.404	TIC	4.66E+06	2.29	No Match	0.017	52.515	Unknown	464943	0.23
4-Acetyloxymino-6,6-dimethyl-3-methylsulfanyl-4,5,6,7-tetr		0.001	8.732	TIC	22774	0.01	No Match	0.061	52.6	Unknown	1.67E+06	0.82
Cyclopropanepentanoic acid, 2-undecyl-, methyl ester		0.021	9.146	TIC	577107	0.28	No Match	0.043	52.632	Unknown	1.17E+06	0.57
Ethanol, 2-(9,12-octadecadienyl)-, (Z,Z)-		0.009	9.26	TIC	257819	0.13	No Match	0.021	52.669	Unknown	576175	0.28
Hexadecane, 1,1-bis(dodecyloxy)-		0.011	9.87	TIC	312482	0.15	No Match	0.032	52.729	Unknown	880095	0.43
1,3-Pentandiol, 2,2,4-trimethyl-		0.03	10.258	TIC	816207	0.40	No Match	0.02	52.781	Unknown	544917	0.27
Cyclopropanedodecanoic acid, 2-octyl-, methyl ester		0.004	10.434	TIC	110382	0.05	No Match	0.018	52.802	Unknown	480292	0.23
2-Butenoic acid, 2-methyl-, 2-(acetyloxy)-1,1a,2,3,4,6,7,10,1		0.014	10.612	TIC	374241	0.18	No Match	0.019	52.826	Unknown	528857	0.26
Cyclopentadecanone, 4-methyl-		0.068	11.245	TIC	1.85E+06	0.91	No Match	0.016	52.923	Unknown	451642	0.22
Z-8-Methyl-9-tetradecenoic acid		0.11	11.27	TIC	3.03E+06	1.49	No Match	0.018	53.098	Unknown	492903	0.24
2-Hexadecanol		0.039	11.402	TIC	1.07E+06	0.52	No Match	0.017	53.477	Unknown	460618	0.22
Pentadec-7-ene, 7-bromomethyl-		0.176	11.594	TIC	4.84E+06	2.38	No Match	0.019	53.616	Unknown	526558	0.26
2-Furancarboxylic acid, heptadecyl ester		0.019	12.014	TIC	534380	0.26	No Match	0.015	53.713	Unknown	414572	0.20
Cyclohexanbutanoic acid, 2-methyl-3-oxo-, methyl ester		0.021	12.225	TIC	573114	0.28	No Match	0.02	53.845	Unknown	555218	0.27
1H-Trindene, 2,3,4,5,6,7,8,9-octahydro-1,1,4,4,7,7-hexamet		0.018	12.471	TIC	484343	0.24	Pentasiloxane, 1,1,3,3,5,5,7,7,9,9-decamethyl-	0.029	54.005	TIC	800921	0.39
No Match		0.02	12.563	Unknown	558428	0.27	No Match	0.372	54.238	Unknown	1.02E+07	5.02
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)		0.014	12.648	TIC	389667	0.19	No Match	0.015	0.055	Unknown	413228	0.20
Benzoyl chloride, 3-methyl-		0.18	12.888	TIC	4.94E+06	2.43	Rhodoviolascin	0.001	0.373	TIC	16087	0.01
Benzoyl chloride, 3-methyl-		0.056	12.933	TIC	1.52E+06	0.75	2,7-Diphenyl-1,6-dioxypyridazino[4,5:2',3']pyrrolo[4',5':d]pyri	0.036	0.666	TIC	1.01E+06	0.49
4-Oxo-4-(para-tolyl)-butyric acid		0.069	13.411	TIC	1.89E+06	0.93	N,N'-Bis(Carbobenzoyloxy)-lysine methyl(ester)	0.009	0.732	TIC	257031	0.12
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)		0.019	13.461	TIC	515124	0.25	2H-Benzo[foxioreno][2,3-E]benzofuran-8(9H)-one, 9-[[[1,3-ber	0.027	0.752	TIC	765203	0.37
No Match		0.071	13.689	Unknown	1.96E+06	0.96	Rhodoviolascin	0.017	0.807	TIC	474116	0.23
No Match		0.039	13.735	Unknown	1.06E+06	0.52	2-Furancarboxylic acid, 3-pentadecyl ester	0.017	1.762	TIC	483714	0.24
No Match		0.016	13.898	Unknown	439754	0.21	Cyclopentane, (2-methylpropyl)-	0.069	2.905	TIC	1.93E+06	0.95
5-Octyn-1-ol tetrahydropyranol ether		0.024	14.267	TIC	663346	0.32	13-Docosenoic acid, methyl ester	0.439	5.681	TIC	1.23E+07	6.20
No Match		0.019	14.319	Unknown	528538	0.26	Oxirane, 2,3-diethyl-	0.145	6.263	TIC	4.03E+06	1.98
No Match		0.019	14.632	Unknown	518802	0.25	Carbamic acid, (cyanomethyl)-, 1,1-dimethylethyl ester	0.295	8.236	TIC	8.23E+06	4.04
Hexadecane, 1,1-bis(dodecyloxy)-		0.029	14.926	TIC	799690	0.39	Hexadecane, 1,1-bis(dodecyloxy)-	0.045	8.385	TIC	1.25E+06	0.61
Cyclopropanepentanoic acid, 2-undecyl-, methyl ester		0.025	14.98	TIC	683467	0.33	Oxirane, 2-methyl-2-(2-methylpropyl)-	0.067	8.405	TIC	1.86E+06	0.91
No Match		0.019	15.018	Unknown	515645	0.25	2-Nonyl methylphosphonofluoridate	0.101	8.558	TIC	2.81E+06	1.38
Z-(13,14-Epoxy)tetradec-11-en-1-ol acetate		0.098	15.266	TIC	2.69E+06	1.32	Cholestan-3-one, 4,4-dimethyl-, cyclic 1,2-ethanedyl acetal,	0.017	8.632	TIC	472081	0.23
Cyclopentadecanone, 4-methyl-		0.125	15.438	TIC	3.44E+06	1.69	5-(p-Aminophenyl)-4-phenyl-2-thiazolamine	0.002	13.256	TIC	42352	0.02
No Match		0.019	15.583	Unknown	510828	0.25	Octadecanal, 2-bromo-	0.008	13.384	TIC	210657	0.10
Methyl 15-methoxyhexadecanoate		0.028	16.023	TIC	764087	0.37	Octadecanal, 2-bromo-	0.001	13.443	TIC	34029	0.02
Methyl 16-methoxyheptadecanoate		0.026	16.222	TIC	715854	0.35	2-Cyclohexyl-3-isopropyl-pent-4-en-2-ol	0.016	13.509	TIC	437173	0.21
Borinic acid, diethyl-, 2-acetylphenyl ester		0.821	16.721	TIC	2.25E+07	11.07	2-Hexadecanol	0.004	13.694	TIC	115211	0.05
No Match		0.023	18.274	Unknown	630231	0.31	2-Hexadecanol	0.001	14.91	TIC	30627	0.01
Thiophene, 2,5-diethyl-		0.031	18.781	TIC	851661	0.42	1-(Cyclopropyl-nitro-methyl)-cyclopentanol	0.012	15.494	TIC	332611	0.16
No Match		0.029	20.446	Unknown	788707	0.39	No Match	0.029	16.02	Unknown	795642	0.39
N-Benzyl-2-[(1-(4-methoxy-phenyl)-1H-tetrazol-5-ylsulfanyl)-a		1.323	20.89	TIC	3.63E+07	17.83	No Match	0.021	16.213	Unknown	591494	0.29
							9,10-Anthracenedione, 1-(methylamino)-4-[(4-methylphenyl)-	0.006	16.325	TIC	158928	0.08
							9,10-Anthracenedione, 1-(methylamino)-4-[(4-methylphenyl)-	0.007	16.346	TIC	184595	0.09
							2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-1-methyl-	0.019	16.486	TIC	522341	0.25
							No Match	0.022	16.515	Unknown	627403	0.31

Lung Extract

2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-1-methyl-	0.006	16.558	TIC	166071	0.08	Oxirane, 2-methyl-2-(2-methylpropyl)-	0.165	8.396	TIC	4.40E+06	2.16
8,8,9-Trimethyl-deca-3,5-diene-2,7-dione	0.032	18.268	TIC	891945	0.44	Cholestan-3-one, 4,4-dimethyl-, cyclic 1,2-ethanediyl acetal,	0.002	8.658	TIC	65515	0.03
Propylphosphonic acid di(1-methylpentyl) ester	0.032	18.778	TIC	902673	0.44	No Match	0.02	9.136	Unknown	536439	0.26
Naphthalene, 1,1'-(1,10-decanediyl)bis[decahydro-	0.056	19.401	TIC	1.57E+06	0.77	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester	0.011	9.5	TIC	294114	0.14
2H-Benzimidazol-2-one, 1,3-dihydro-1-methyl-	0.003	21.094	TIC	88423	0.04	Megestrol Acetate	0.013	9.534	TIC	358299	0.17
Pyrrrole-2-carbonitrile, 5-formyl-3,4-dimethyl-	0.001	21.191	TIC	25586	0.01	10-Undecenoic acid, octyl ester	0.137	11.248	TIC	3.67E+06	1.80
Phosphine, (pentamethylphenyl)-	0.067	21.258	TIC	1.86E+06	0.91	2-Hexadecanol	0.015	11.405	TIC	411983	0.20
Hexestrol	0.03	24.285	TIC	843914	0.41	Terbutyloxyformamide, N-methyl-N-[4-(1-pyrrolidinyl)-2-buty-	0.005	11.425	TIC	133563	0.06
Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl-4-Picolylamine, N,N-dinonyl-	0.016	25.583	TIC	457778	0.22	Pentadec-7-ene, 7-bromomethyl-	0.115	11.595	TIC	3.06E+06	1.50
1,2-Benzenediacarboxylic acid, 4,5,6,7-tetrahydro-3-(4-ct	0.04	30.214	TIC	1.13E+06	0.55	No Match	0.042	12.45	Unknown	1.12E+06	0.55
No Match	0.014	30.389	Unknown	402879	0.20	No Match	0.039	12.533	Unknown	1.05E+06	0.51
Phthalic acid, 6-ethyl-3-octyl pentyl ester	0.007	32.096	TIC	182270	0.09	Benzoyl chloride, 2-methyl-	0.193	12.869	TIC	5.15E+06	2.53
Benzene, 1,1'-(1,2-diethyl-1,2-ethanediyl)bis[4-methoxy-	0.01	32.123	TIC	267704	0.13	Benzoyl chloride, 2-methyl-	0.077	12.901	TIC	2.07E+06	1.01
Verapamil	0.01	33.208	TIC	285871	0.14	3-Methylcyclopentadecylcarbamic acid, t-butyl ester	0.12	13.389	TIC	3.21E+06	1.57
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	0.02	42.379	TIC	547927	0.27	Pseudoisolasodine diacetate	0.044	13.494	TIC	1.18E+06	0.58
Calcitriol	0.05	44.386	TIC	1.39E+06	0.68	Acetic acid, 6-morpholin-4-yl-9-oxobicyclo[3.3.1]non-3-yl est	0.155	13.522	TIC	4.13E+06	2.03
No Match	0.018	47.861	Unknown	496779	0.24	Pseudoisolasodine diacetate	0.016	13.901	TIC	428863	0.21
No Match	0.016	47.922	Unknown	457055	0.22	2,6-Dimethyl-8-(tetrahydropryan-2-yloxy)octa-2,6-dien-1-ol	0.021	14.626	TIC	558634	0.27
3-Dimethyl(trimethylsilylmethyl)silyloxy-pentadecane	0.178	49.909	TIC	4.96E+06	2.43	No Match	0.025	14.697	Unknown	654354	0.32
No Match	0.038	50.945	Unknown	1.06E+06	0.52	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester	0.068	14.984	TIC	1.81E+06	0.89
No Match	0.016	51.102	Unknown	447631	0.22	1,2-15,16-Diepoxyhexadecane	0.14	15.433	TIC	3.75E+06	1.84
No Match	0.038	51.64	Unknown	1.06E+06	0.52	3-Tetradecanol	0.049	16.022	TIC	1.30E+06	0.64
No Match	0.033	52.089	Unknown	912824	0.45	Methyl 15-methoxyhexadecanoate	0.041	16.214	TIC	1.10E+06	0.54
No Match	0.016	52.176	Unknown	439830	0.21	No Match	0.024	16.365	Unknown	630715	0.31
No Match	0.017	52.467	Unknown	461414	0.23	No Match	0.023	16.448	Unknown	614274	0.30
No Match	0.04	52.596	Unknown	1.12E+06	0.55	No Match	0.032	16.504	Unknown	855609	0.42
No Match	0.041	52.637	Unknown	1.14E+06	0.56	No Match	0.03	16.528	Unknown	789245	0.39
No Match	0.024	52.695	Unknown	682113	0.33	No Match	0.017	17.927	Unknown	461206	0.22
No Match	0.024	52.799	Unknown	657469	0.32	No Match	0.019	18.265	Unknown	497011	0.24
No Match	0.019	52.953	Unknown	527143	0.26	Thiophene, 2,5-diethyl-	0.027	18.779	TIC	717259	0.35
No Match	0.016	53.01	Unknown	459075	0.22	Baccharane	0.075	19.403	TIC	2.01E+06	0.99
No Match	0.028	53.131	Unknown	790943	0.39	1,3-Dioxane, 5-(hexadecyloxy)-2-pentadecyl-, cis-	0.004	19.484	TIC	108115	0.05
No Match	0.021	53.218	Unknown	597704	0.29	No Match	0.015	20.302	Unknown	403165	0.20
No Match	0.022	53.253	Unknown	619591	0.30	No Match	0.032	20.372	Unknown	856276	0.42
No Match	0.02	53.373	Unknown	556539	0.27	No Match	0.052	20.438	Unknown	1.38E+06	0.68
No Match	0.02	53.468	Unknown	551217	0.27	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.114	21.049	TIC	3.05E+06	1.50
No Match	0.043	53.536	Unknown	1.21E+06	0.59	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.09	21.101	TIC	2.40E+06	1.18
No Match	0.055	53.656	Unknown	1.54E+06	0.75	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.027	21.165	TIC	726185	0.36
No Match	0.016	54.012	Unknown	438945	0.21	N-Benzyl-2-[1-(4-methoxy-phenyl)-1H-tetrazol-5-ylsulfanyl]-a	0.126	21.244	TIC	3.37E+06	1.65
1-Monolinoleoylglycerol trimethylsilyl ether	0.43	54.236	TIC	1.20E+07	5.89	2-Benzoxazolamine, N-methyl-	0.016	21.347	TIC	439376	0.21
Glibberlic acid	0.007	0.064	TIC	179890	0.09	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.015	21.376	TIC	403742	0.20
Curan, 16,17-didehydro-, (20.xi.)-	0.022	0.729	TIC	580306	0.28	2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.008	21.418	TIC	221434	0.11
Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphen	0.024	0.752	TIC	638517	0.31	2-Benzoxazolamine, N-methyl-	0.014	21.435	TIC	361445	0.18
Glucobrassicin	0.022	0.769	TIC	594892	0.29	Bis(pentamethylcyclosiloxo)tetramethyldisiloxane	0.005	21.983	TIC	137309	0.07
D-Streptamine, O-6-amino-6-deoxy-πD-glucopyranosyl-(1-4',	0.032	0.807	TIC	864893	0.42	Decanoic acid, octadecyl ester	0.005	25.576	TIC	133702	0.06
N,N'-o-Phenylenebis(5,5,5-trifluoro-4-oxopentan-2-iminatio)n	0.039	0.84	TIC	1.03E+06	0.50	No Match	0.015	27.873	Unknown	413152	0.20
Pregn-4-ene-3,20-dione, 17,21-dihydroxy-	0.03	0.977	TIC	799965	0.39	Acetamide, 2-(4-morpholyl)-N-(4,5,6,7-tetrahydro-2-cyano-bi	0.036	30.216	TIC	966684	0.47
Oleic acid, eicosyl ester	0.044	1.024	TIC	1.19E+06	0.58	3,12-Oleandione	0.005	30.41	TIC	124755	0.06
2,5-Dimethyl-4-hydroxy-3-hexanone	0.007	1.147	TIC	180318	0.09	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.227	31.048	TIC	6.06E+06	2.98
3,5-Hexadien-2-ol, 2-methyl-	0.204	1.757	TIC	5.46E+06	2.68	No Match	0.017	31.203	Unknown	442360	0.22
3-Methyl-p-anisaldehyde	0.04	2.082	TIC	1.07E+06	0.53	Didodecyl phthalate	0.033	42.372	TIC	874374	0.43
Trimethyl(4-tert-butylphenoxy)silane	0.06	2.465	TIC	1.61E+06	0.79	No Match	0.016	48.326	Unknown	421962	0.21
2-Amino-4,4,6,6-tetramethyl-4,6-dihydro-thieno[2,3-c]furan-3	0.022	2.56	TIC	580671	0.28	3-Dimethyl(trimethylsilylmethyl)silyloxy-pentadecane	0.166	49.902	TIC	4.42E+06	2.17
1-Methyl-2-phenylbenzimidazole	0.015	2.589	TIC	411789	0.20	No Match	0.017	50.597	Unknown	442271	0.22
Benzazol	0.034	2.627	TIC	907952	0.44	No Match	0.017	51.026	Unknown	443292	0.22
Propane, 2,2'-(methylenebis(oxy))bis[2-methyl-	0.017	4.111	TIC	452707	0.22	No Match	0.021	51.81	Unknown	560096	0.27
8-Hydroxy-2-octanone	0.52	5.677	TIC	1.39E+07	6.81	No Match	0.022	52.067	Unknown	584777	0.29
Tetradecane, 2,6,10-trimethyl-	0.016	6.372	TIC	438771	0.21	No Match	0.026	52.538	Unknown	699149	0.34
5-(4,5-Dihydro-3H-pyrrol-2-ylmethylene)-4,4-dimethylpyrrol-ic	0.04	6.407	TIC	1.06E+06	0.52	Propanamide, N-methyl-2-amino-	0.012	6.639	TIC	305287	0.15
5-(4,5-Dihydro-3H-pyrrol-2-ylmethylene)-4,4-dimethylpyrrol-ic	0.049	6.429	TIC	1.31E+06	0.64	Rhodoviolacin	0.006	6.808	TIC	149474	0.07
5-(4,5-Dihydro-3H-pyrrol-2-ylmethylene)-4,4-dimethylpyrrol-ic	0.006	6.524	TIC	161109	0.08	Butyl aldoxime, 3-methyl-, syn-	0.053	9.914	TIC	1.37E+06	0.67
6,7-Epoxy-pregn-4-ene-9,11,18-triol-3,20-dione, 11,18-diacet	0.002	6.717	TIC	61364	0.03	2-Methyl-2,3-pentane-diol	0.006	1.289	TIC	147078	0.07
Dithiocarbonic acid, S-(2,3-diphenyl-1-p-tolyl-cycloprop-2-en	0	7.318	TIC	12102	0.00	2-Furan-carboxylic acid, tetradecyl ester	0.059	1.753	TIC	1.51E+06	0.74
4-Keto-3,3-dimethylhexanoic acid, ethyl ester	0.194	8.235	TIC	5.18E+06	2.54	1-Propyl-3,6-diazahomoadamantan-9-ol	0.007	6.386	TIC	182944	0.09
Butanoic acid, 3-oxo-, 1,1-dimethylethyl ester	0.103	8.283	TIC	2.75E+06	1.35	Papaveroline	0.001	7.287	TIC	15220	0.01
						Carbamic acid, (cyanomethyl)-, 1,1-dimethylethyl ester	0.155	8.232	TIC	3.96E+06	1.95

Lung Extract

Deoxyspergualin	0.004	14.899	TIC	97729	0.05	No Match	0.019	53.891	Unknown	491976	0.24
Deoxyspergualin	0.005	14.919	TIC	125848	0.06	No Match	0.028	53.955	Unknown	750446	0.37
10-Methyl-E-11-tridecen-1-ol propionate	0.081	15.259	TIC	2.13E+06	1.05	No Match	0.023	53.969	Unknown	594619	0.29
Cyclopentadecanone, 4-methyl-	0.099	15.43	TIC	2.62E+06	1.28	No Match	0.023	53.999	Unknown	604002	0.30
Methyl 16-methoxyheptadecanoate	0.021	16.008	TIC	542596	0.26	No Match	0.021	54.032	Unknown	559885	0.27
No Match	0.016	16.465	Unknown	418140	0.20	No Match	0.036	54.053	Unknown	936173	0.46
No Match	0.022	16.516	Unknown	590080	0.29	No Match	0.018	54.134	Unknown	468046	0.23
No Match	0.018	16.535	Unknown	472251	0.23	No Match	0.017	54.159	Unknown	460410	0.22
Pyridine, 2-[[[1,1-dimethylethyl]thio]methyl]-	0.012	17.096	TIC	329185	0.16	No Match	0.165	54.228	Unknown	4.35E+06	2.14
No Match	0.036	18.27	Unknown	942548	0.46	No Match	0.193	54.248	Unknown	5.08E+06	2.49
Thiophene, 2,5-diethyl-	0.031	18.778	TIC	807826	0.40	No Match	0.022	54.306	Unknown	576988	0.28
2,2,6,7-Tetramethyl-10-oxatricyclo[4.3.0.1(1,7)]decan-5-one	0.198	19.404	TIC	5.23E+06	2.57	No Match	0.021	54.324	Unknown	564457	0.28
1(3H)-Isobenzofuranone, 6-(dimethylamino)-3,3-bis[4-(dimethyl-2-hydroxyphenyl)-2-oxoethyl]-	0.007	19.499	TIC	178362	0.09	No Match	0.023	54.351	Unknown	601838	0.29
1,3-Dioxane, 5-(hexadecyloxy)-2-pentadecyl-, cis-	0.007	19.534	TIC	180599	0.09	No Match	0.019	54.372	Unknown	511512	0.25
No Match	0.016	20	Unknown	426036	0.21	No Match	0.018	54.388	Unknown	462580	0.23
No Match	0.024	20.44	Unknown	623569	0.30	No Match	0.039	54.414	Unknown	1.03E+06	0.50
No Match	0.032	20.456	Unknown	850372	0.42	No Match	0.096	54.47	Unknown	2.53E+06	1.24
4-Formyl-3,5-dimethyl-1H-pyrrole-2-carbonitrile	0.099	21.051	TIC	2.60E+06	1.28	No Match	0.033	54.492	Unknown	873315	0.43
Pyrrole-3-carbonitrile, 5-formyl-2,4-dimethyl-	0.061	21.1	TIC	1.60E+06	0.79	No Match	0.028	54.508	Unknown	750868	0.37
2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.073	21.13	TIC	1.93E+06	0.95	No Match	0.029	54.584	Unknown	759160	0.37
2H-Benzimidazol-2-one, 1,3-dihydro-5-methyl-	0.025	21.185	TIC	663053	0.32	No Match	0.081	54.614	Unknown	2.13E+06	1.05
2,7-Octanedione, 4,4-dimethyl-3-[2-(1-hydroxy-1-methylethyl)-2-oxoethyl]-	0.227	21.25	TIC	5.97E+06	2.93	No Match	0.107	54.655	Unknown	2.82E+06	1.38
No Match	0.017	21.434	Unknown	438734	0.21	No Match	0.027	54.71	Unknown	714527	0.35
No Match	0.019	21.896	Unknown	506489	0.25	No Match	0.027	54.727	Unknown	718618	0.35
Bis(pentamethylcyclotrisiloxy)tetramethyldisiloxane	0.033	21.978	TIC	875869	0.43	No Match	0.025	54.744	Unknown	672108	0.33
2,4-Imidazolidinedione, 5-[3,4-bis((trimethylsilyloxy)phenyl)-2-oxoethyl]-	0.001	22.354	TIC	27749	0.01	No Match	0.046	54.777	Unknown	1.20E+06	0.59
Decanoic acid, octadecyl ester	0.051	25.578	TIC	1.33E+06	0.65	No Match	0.03	54.789	Unknown	787850	0.39
No Match	0.016	27.027	Unknown	416022	0.20	No Match	0.037	54.82	Unknown	971478	0.48
4-Picolylamine, N,N-dinonyl-	0.014	28.159	TIC	377200	0.18	No Match	0.04	54.844	Unknown	1.06E+06	0.52
Imidazole, 5-fluoro-2-methyl-	0.043	30.209	TIC	1.14E+06	0.56	No Match	0.046	54.876	Unknown	1.21E+06	0.59
Benzo[b]dihydropyran, 6-hydroxy-4,4,5,7,8-pentamethyl-	0.008	30.392	TIC	218048	0.11	No Match	0.079	54.928	Unknown	2.09E+06	1.02
7,9-Di-tert-butyl-1-oxaspiro[4,5]deca-6,9-diene-2,8-dione	0.218	31.049	TIC	5.75E+06	2.82	No Match	0.045	55.018	Unknown	1.20E+06	0.59
No Match	0.046	31.209	Unknown	1.21E+06	0.59	No Match	0.042	55.042	Unknown	1.11E+06	0.54
Phthalic acid, butyl dodecyl ester	0.003	32.107	TIC	71664	0.03	No Match	0.041	55.056	Unknown	1.08E+06	0.53
Phenol, 2-methyl-4-(1,1,3,3-tetramethylbutyl)-	0.021	42.368	TIC	544234	0.27	No Match	0.04	55.076	Unknown	1.05E+06	0.51
No Match	0.016	42.394	Unknown	412566	0.20	No Match	0.052	55.092	Unknown	1.38E+06	0.68
Rhodopin	0.026	44.382	TIC	676472	0.33	No Match	0.05	55.13	Unknown	1.31E+06	0.64
Prosta-5,13-dien-1-oiic acid, 9,11,15-tris((trimethylsilyloxy)-, 2,2,6,6-tetramethyl-1,3-dioxane-5-carboxylate-	0.017	44.399	TIC	443411	0.22	No Match	0.034	55.148	Unknown	898762	0.44
No Match	0.024	47.866	Unknown	631605	0.31	No Match	0.035	55.166	Unknown	923308	0.45
No Match	0.018	48.355	Unknown	467919	0.23	No Match	0.032	55.183	Unknown	849252	0.42
No Match	0.016	48.409	Unknown	417668	0.20	No Match	0.068	55.219	Unknown	1.79E+06	0.88
No Match	0.019	50.669	Unknown	506051	0.25	No Match	0.033	55.243	Unknown	864166	0.42
No Match	0.032	51.683	Unknown	848114	0.42	No Match	0.056	55.267	Unknown	1.49E+06	0.73
No Match	0.018	51.717	Unknown	471301	0.23	No Match	0.063	55.313	Unknown	1.67E+06	0.82
No Match	0.032	51.823	Unknown	837371	0.41	No Match	0.053	55.425	Unknown	1.41E+06	0.69
No Match	0.019	52.137	Unknown	504969	0.25	No Match	0.048	55.524	Unknown	1.26E+06	0.62
No Match	0.018	52.219	Unknown	461984	0.23	No Match	0.054	55.54	Unknown	1.43E+06	0.70
No Match	0.015	52.29	Unknown	403957	0.20	No Match	0.08	55.592	Unknown	2.10E+06	1.03
No Match	0.069	52.574	Unknown	1.82E+06	0.89	No Match	0.09	55.873	Unknown	2.37E+06	1.16
No Match	0.056	52.663	Unknown	1.49E+06	0.73	No Match	0.2	63.254	Unknown	5.26E+06	2.58
No Match	0.023	52.709	Unknown	599650	0.29	No Match	0.218	63.341	Unknown	5.75E+06	2.82
No Match	0.024	52.731	Unknown	641002	0.31	No Match	0.117	63.497	Unknown	3.09E+06	1.52
No Match	0.029	52.771	Unknown	775728	0.38	No Match	0.102	63.642	Unknown	2.69E+06	1.32
No Match	0.017	52.793	Unknown	448110	0.22	No Match	0.105	63.697	Unknown	2.76E+06	1.35
No Match	0.016	52.825	Unknown	418798	0.20	No Match	0.082	63.753	Unknown	2.17E+06	1.06
No Match	0.044	52.936	Unknown	1.17E+06	0.57	No Match	0.155	63.795	Unknown	4.09E+06	2.01
No Match	0.02	53.048	Unknown	517353	0.25	No Match	0.159	63.958	Unknown	4.19E+06	2.06
No Match	0.019	53.267	Unknown	501474	0.24	No Match	0.158	64	Unknown	4.15E+06	2.04
No Match	0.021	53.352	Unknown	551385	0.27	No Match	0.064	64.046	Unknown	1.70E+06	0.83
No Match	0.067	53.551	Unknown	1.76E+06	0.86	No Match	0.157	64.069	Unknown	4.14E+06	2.03
No Match	0.044	53.574	Unknown	1.16E+06	0.57	No Match	0.078	64.12	Unknown	2.07E+06	1.01
No Match	0.059	53.619	Unknown	1.55E+06	0.76	No Match	0.101	64.142	Unknown	2.66E+06	1.30
No Match	0.058	53.662	Unknown	1.52E+06	0.75	No Match	0.057	64.212	Unknown	1.52E+06	0.74
No Match	0.028	53.693	Unknown	750075	0.37	No Match	0.076	64.285	Unknown	2.01E+06	0.99
No Match	0.035	53.724	Unknown	910209	0.45	No Match	0.066	64.305	Unknown	1.74E+06	0.85
No Match	0.023	53.843	Unknown	604874	0.30	No Match	0.073	64.324	Unknown	1.92E+06	0.94
No Match	0.017	53.872	Unknown	447806	0.22	No Match	0.16	64.352	Unknown	4.22E+06	2.07

Sweat Extract

Peak Name	Amount/RFRT (min)	Status	Result Typ Area	Calculated Amount (ug/L)							
Gibberellic acid	0.011	0.025	TIC	329201	0.16	No Match	0.027	13.441	Unknown	812720	0.40
Gibberellic acid	0.004	0.055	TIC	135948	0.07	No Match	0.019	13.463	Unknown	580127	0.28
.beta.-Hydroxyquebrachamine	0.009	0.074	TIC	281578	0.14	4-tert-Butylcyclohexyl propylphosphonofluoridate	0.126	13.531	TIC	3.85E+06	1.89
d-Alanyl-L-alanine	0.02	0.643	TIC	615334	0.30	No Match	0.014	14.036	Unknown	417399	0.20
Pseudosolasodine diacetate	0.023	0.668	TIC	709693	0.35	No Match	0.019	14.122	Unknown	590104	0.29
7,10,13-Eicosatrienoic acid, methyl ester	0.017	0.7	TIC	518719	0.25	No Match	0.017	14.265	Unknown	532793	0.26
N,N'-Bis(Carbobenzyloxy)-lysine methyl(ester)	0.017	0.731	TIC	525632	0.26	8,14-Seco-3,19-epoxyandrostane-8,14-dione, 17-acetoxy-3	0.006	14.401	TIC	173335	0.08
Glucobrassicin	0.03	0.755	TIC	906329	0.44	No Match	0.021	14.633	Unknown	638739	0.31
Curan-17-oic acid, 2,16-didehydro-19-hydroxy-, methyl este	0.022	0.808	TIC	669328	0.33	No Match	0.02	14.705	Unknown	602480	0.29
Lupulon	0.032	0.837	TIC	968711	0.47	No Match	0.016	14.748	Unknown	502401	0.25
Oxirane, tetramethyl-	0.064	0.913	TIC	1.97E+06	0.97	1,2-15,16-Diepoxyhexadecane	0.1	15.275	TIC	3.06E+06	1.50
2-Myristynoyl pantheine	0.026	0.955	TIC	787333	0.39	1,2-trans-1,5-trans-2,5-dihydroxy-4-methyl-1-(1-hydroxy-1-iz	0.15	15.436	TIC	4.61E+06	2.26
7-Chloro-1-[[3-[dimethylamino]propyl]imino]-1,3,4,10-tetrahy	0.019	1.02	TIC	585311	0.29	No Match	0.023	15.505	Unknown	693462	0.34
Butanenitrile, 2,3-dioxo-, dioxime, o,o'-diacetyl-	0.136	1.094	TIC	4.17E+06	2.05	No Match	0.058	15.587	Unknown	1.76E+06	0.87
No Match	0.017	1.186	Unknown	534339	0.26	No Match	0.014	15.749	Unknown	434023	0.21
Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxypher	0.028	1.279	TIC	865536	0.42	No Match	0.034	15.935	Unknown	1.04E+06	0.51
1,3-Butanediol, diacetate	0.043	1.52	TIC	1.30E+06	0.64	9-Octadecene, 1,1'-[1,2-ethanediy]bis(oxy)]bis-, (Z,Z)-	0.012	15.962	TIC	352558	0.17
1-Propanol, 2,2-dimethyl-, acetate	3.043	1.757	TIC	9.32E+07	45.77	No Match	0.023	16.087	Unknown	691258	0.34
Hexane, 1-fluoro-	0.003	1.83	TIC	106913	0.05	No Match	0.014	16.281	Unknown	434280	0.21
Hydrazinecarboxylic acid, phenylmethyl ester	0.047	1.914	TIC	1.45E+06	0.71	No Match	0.031	16.307	Unknown	957018	0.47
Propyl nitrite	0.013	2.262	TIC	398242	0.19	No Match	0.037	16.368	Unknown	1.12E+06	0.55
1-Methyl-2-phenylbenzimidazole	0.042	2.397	TIC	1.28E+06	0.63	No Match	0.067	16.462	Unknown	2.06E+06	1.01
2,4,6-Cycloheptatrien-1-one, 3,5-bis-trimethylsilyl-	0.016	2.555	TIC	504514	0.25	No Match	0.016	16.561	Unknown	498156	0.24
2,4-Di-tert-butylthiophenol	0.013	2.641	TIC	407748	0.20	4-Aminoresorcinol	0.141	17.107	TIC	4.31E+06	2.11
Z-10-Pentadecen-1-ol	0.15	2.898	TIC	4.61E+06	2.26	No Match	0.013	18.25	Unknown	406334	0.20
Propanoic acid, 2-methyl-, pentyl ester	1.071	3.138	TIC	3.28E+07	16.11	No Match	0.029	18.788	Unknown	883322	0.43
Hexadecane, 1,1-bis(dodecyloxy)-	0.025	3.865	TIC	750300	0.37	1,3-Dioxane, 4-(hexadecyloxy)-2-pentadecyl-	0.047	19.168	TIC	1.43E+06	0.70
Oxime-, methoxy-phenyl-	0.235	5.408	TIC	7.19E+06	3.53	No Match	0.037	19.352	Unknown	1.14E+06	0.56
4-Ethylbenzoic acid, decyl ester	0.037	5.503	TIC	1.14E+06	0.56	1,3-Dioxane, 5-(hexadecyloxy)-2-pentadecyl-, cis-	0.087	19.422	TIC	2.67E+06	1.31
2,5-Dimethylhexane-2,5-dihydroperoxide	1.01	5.674	TIC	3.09E+07	15.20	1(3H)-Isobenzofuranone, 6-(dimethylamino)-3,3-bis[4(dime	0.018	19.725	TIC	544298	0.27
Oxime-, methoxy-phenyl-	0.009	5.854	TIC	288848	0.14	No Match	0.019	20.311	Unknown	577797	0.28
4-Ethylbenzoic acid, pentadecyl ester	0	6.042	TIC	11897	0.00	Pyrrrole-2-carbonitrile, 5-formyl-3,4-dimethyl-	0.015	21.23	TIC	467059	0.23
Oxime-, methoxy-phenyl-	0.004	6.07	TIC	110355	0.05	2-[1-(4-Methoxy-phenyl)-1H-tetrazol-5-ylsulfanylmethyl]-1H-	0.058	21.256	TIC	1.79E+06	0.88
Oxime-, methoxy-phenyl-	0.002	6.199	TIC	48668	0.02	No Match	0.021	21.343	Unknown	634702	0.31
1-Propyl-3,6-diazahomoadamantan-9-ol	0.042	6.397	TIC	1.28E+06	0.63	No Match	0.019	21.45	Unknown	575657	0.28
5-(4,5-Dihydro-3H-pyrrol-2-ylmethylene)-4,4-dimethylpyrroli	0.062	6.41	TIC	1.91E+06	0.93	No Match	0.017	21.798	Unknown	506319	0.25
3,4-Dihydroisoquinolin-7-ol, 1-[4-hydroxybenzyl]-6-methoxy-	0.001	7.36	TIC	27263	0.01	No Match	0.032	21.921	Unknown	985365	0.48
sec-Butyl nitrite	0.024	7.543	TIC	748882	0.37	No Match	0.02	21.957	Unknown	602583	0.29
Pyrolidone, 1-(1-oxo-2,5-oxadecadienyl)-	0.025	7.557	TIC	757514	0.37	Bis(pentamethylcyclotrisiloxy)tetramethyldisiloxane	0.03	21.982	TIC	912729	0.45
Cyclohexane, 1,3,5-trimethyl-2-octadecyl-	0.03	7.975	TIC	926871	0.45	No Match	0.016	25.22	Unknown	498122	0.24
9-Octadecene, 1,1'-[1,2-ethanediy]bis(oxy)]bis-, (Z,Z)-	0.058	9.482	TIC	1.77E+06	0.87	No Match	0.017	25.291	Unknown	512170	0.25
3-Aza-2-(4-chlorophenyl)-1,1-dicyano-3-(1-methylpyrrolidin-	0.004	9.649	TIC	112676	0.05	Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl)	0.061	25.596	TIC	1.88E+06	0.92
Pyrazole[4,5-b]imidazole, 1-formyl-3-ethyl-6-trd-ribofuranos	0.006	9.706	TIC	172150	0.08	No Match	0.016	30.225	Unknown	478195	0.23
3,4-Hexanediol, 2,5-dimethyl-	0.028	10.27	TIC	866911	0.42	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.136	31.06	TIC	4.15E+06	2.04
Pregna-5,8-diene-3-tri11-triol-20-one diacetate	0.003	10.964	TIC	76856	0.04	.psi.,.psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-bis[(trimethylsilyl	0.001	31.198	TIC	17372	0.01
1,2-Epoxyundecane	0.094	11.233	TIC	2.89E+06	1.42	No Match	0.027	45.489	Unknown	839518	0.41
Borinic acid, diethyl-, 1-cyclododecen-1-yl ester	0.142	11.26	TIC	4.34E+06	2.13	1H-Indole-2-carboxylic acid, 6-(4-ethoxyphenyl)-3-methyl-4-	0.029	46.555	TIC	899012	0.44
No Match	0.029	11.429	Unknown	881518	0.43	No Match	0.017	46.592	Unknown	521681	0.25
Cyclohexanebutanal, 2-methyl-3-oxo-, cis	0.235	11.593	TIC	7.19E+06	3.53	No Match	0.014	48.934	Unknown	414062	0.20
Cyclohexane, 1,1'-dodecylidenebis[4-methyl-	0.019	11.761	TIC	574574	0.28	Tetracosamethyl-cyclododecasiloxane	0.166	49.339	TIC	5.09E+06	2.50
2,4,6-Cycloheptatrien-1-one, 3,5-bis-trimethylsilyl-	0.042	12.199	TIC	1.28E+06	0.63	No Match	0.017	50.033	Unknown	521785	0.25
Cyclohexane, 1,1'-(2-tridecyl-1,3-propanediyl)bis-	0.056	12.232	TIC	1.71E+06	0.84	No Match	0.014	51.677	Unknown	419579	0.20
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)	0.009	12.543	TIC	264924	0.13	Rhodoviolascin	0.016	0.022	TIC	475400	0.23
Allopregnane-7-tri11-triol-3,20-dione	0.024	12.66	TIC	742451	0.36	Benzeneethanamine, mmethyl-3-[4-methylphenyloxy]-	0.02	0.639	TIC	596433	0.29
m-Toluic acid, 3,5-difluorophenyl ester	0.844	12.795	TIC	2.59E+07	12.70	Androst-5,7-dien-3-ol-17-one, acetate	0.032	0.669	TIC	952164	0.47
p-Trimethylsilyloxyphenyl-bis(trimethylsilyloxy)ethane	0.971	13.061	TIC	2.97E+07	14.60	Glucobrassicin	0.015	0.755	TIC	456786	0.26
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.102	13.249	TIC	3.13E+06	1.53	Cri nan-6,11-diol, 1,2-didehydro-3-methoxy-, (3pi5pi6pi11R,1	0.03	0.84	TIC	893844	0.44
Androst-4-ene-3,20-dione, 11,16,22-triacetoxy-	0.148	13.271	TIC	4.53E+06	2.22	Silacyclopentane	0.077	0.915	TIC	2.28E+06	1.12
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)	0.031	13.382	TIC	953415	0.47	Cri nan-6,11-diol, 1,2-didehydro-3-methoxy-, (3pi5pi6pi11R,1	0.024	1.022	TIC	713744	0.35
No Match	0.035	13.414	Unknown	1.08E+06	0.53	Oxirane, tetramethyl-	0.137	1.097	TIC	4.04E+06	1.98
						1,3-Butanediol, diacetate	0.137	1.526	TIC	4.05E+06	1.99

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4-Chloro-3-n-hexyltetrahydropyran	0.132	11.59	TIC	3.88E+06	1.90								
2-Furancarboxylic acid, heptadecyl ester	0.017	12.013	TIC	502766	0.25								
Benzeneacetic acid, n4-bis[(trimethylsilyloxy)-, methyl este	0.686	13.061	TIC	2.02E+07	9.90								
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.004	13.224	TIC	114510	0.05								
Chrysanthemumic acid 2,4-dimethylbenzyl ester	0.056	13.259	TIC	1.64E+06	0.80								
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.001	13.468	TIC	25107	0.01								
3-Methylcyclopentadecylcarbamic acid, t-butyl ester	0.027	13.522	TIC	803196	0.39								
.gamma. Dodecalactone	0.007	14.634	TIC	219755	0.11								
2-Hydroxy-1,1,10-trimethyl-6,9-epidioxo-7-octalin	0.079	15.269	TIC	2.33E+06	1.15								
1-Methoxy-3-hydroxymethyloctane	0.048	15.431	TIC	1.41E+06	0.69								
Cyclopentadecanone, 4-methyl-	0.095	15.442	TIC	2.79E+06	1.37								
No Match	0.014	15.771	Unknown	407473	0.20								
No Match	0.02	15.952	Unknown	601253	0.29								
Cyclooctanemethanol, trimethyl-	0.056	16.226	TIC	1.66E+06	0.81								
Methyl 15-methoxyhexadecanoate	0.024	16.251	TIC	708811	0.35								
No Match	0.029	16.513	Unknown	844499	0.41								
No Match	0.022	16.532	Unknown	646719	0.32								
3-Picoline, 2-(tert-butylthio)-	0.025	18.787	TIC	740220	0.36								
Naphthalene, decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [0.055	19.411	TIC	1.61E+06	0.79								
No Match	0.016	19.529	Unknown	482561	0.24								
No Match	0.02	19.922	Unknown	601385	0.29								
No Match	0.017	20.393	Unknown	508893	0.25								
No Match	0.015	20.455	Unknown	429955	0.21								
Pyrole-3-carbonitrile, 5-formyl-2,4-dimethyl-	0.775	20.897	TIC	2.28E+07	11.19								
Pyrole-3-carbonitrile, 5-formyl-2,4-dimethyl-	0.04	21.168	TIC	1.18E+06	0.58								
Pyrole-3-carbonitrile, 5-formyl-2,4-dimethyl-	0.018	21.217	TIC	519263	0.25								
No Match	0.061	21.257	Unknown	1.79E+06	0.88								
No Match	0.021	21.398	Unknown	622325	0.30								
No Match	0.036	21.442	Unknown	1.04E+06	0.51								
Bis(pentamethylcyclotrisiloxy)tetramethyldisiloxane	0.009	21.973	TIC	255916	0.12								
3-Phorbinopropanoic acid, 9-ethenyl-14-ethyl-13-formyl-4,8	0.006	21.995	TIC	184350	0.09								
Phenol, 2,4-bis(1,1-dimethylethyl)-	3.182	22.192	TIC	9.34E+07	45.91								
9-Hexadecenoic acid, 9-hexadecenyl ester, (Z,Z)-	0.022	22.525	TIC	659766	0.32								
1,1':3',1"-Terphenyl, 4,4"-dimethyl-5'-(4-methylphenyl)-	0.008	25.741	TIC	230420	0.11								
1-(4-Hydroxy-3,5-di-tert-butylphenyl)-2-methyl-3-morpholin	0.019	30.216	TIC	564234	0.28								
1-(4-Hydroxy-3,5-di-tert-butylphenyl)-2-methyl-3-morpholin	0.008	30.257	TIC	229976	0.11								
Ethanone, 1-(5,6,7,8-tetrahydro-2,8,8-trimethyl-4H-cyclohep	0.043	30.398	TIC	1.26E+06	0.62								
7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.32	31.064	TIC	9.40E+06	4.62								
Canthaxanthin	0.041	31.17	TIC	1.21E+06	0.59								
Didodecyl phthalate	0.034	42.377	TIC	996516	0.49								
No Match	0.015	42.785	Unknown	452254	0.22								
No Match	0.014	49.472	Unknown	423872	0.21								
No Match	0.014	50.11	Unknown	416443	0.20								
No Match	0.022	50.561	Unknown	651136	0.32								
No Match	0.018	50.678	Unknown	531213	0.26								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.005	51.137	TIC	135302	0.06								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.007	51.528	TIC	214636	0.10								
No Match	0.024	51.665	Unknown	713048	0.35								
No Match	0.014	51.698	Unknown	400319	0.20								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.012	51.858	TIC	358684	0.17								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.006	51.887	TIC	170351	0.08								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.004	51.907	TIC	121715	0.06								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.003	51.96	TIC	89483	0.04								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.005	51.989	TIC	138349	0.07								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.008	52.041	TIC	223222	0.11								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.005	52.062	TIC	145473	0.07								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.013	52.088	TIC	381670	0.18								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.012	52.134	TIC	365403	0.19								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.006	52.167	TIC	180535	0.09								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.003	52.23	TIC	91990	0.04								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.011	52.303	TIC	315796	0.15								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.008	52.378	TIC	244102	0.12								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.004	52.43	TIC	106767	0.05								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.003	52.476	TIC	76553	0.04								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.003	52.522	TIC	82375	0.04								
No Match	0.027	52.58	Unknown	779863	0.38								
No Match	0.036	52.637	Unknown	1.06E+06	0.52								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.014	52.697	TIC	412405	0.20								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.009	52.831	TIC	251157	0.12								
No Match	0.014	52.883	Unknown	402712	0.20								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.016	53.005	TIC	471501	0.23								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.009	53.092	TIC	256236	0.12								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.005	53.11	TIC	155943	0.07								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.012	53.191	TIC	360014	0.18								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.014	53.257	TIC	405812	0.20								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.009	53.273	TIC	278687	0.14								
No Match	0.014	53.297	Unknown	409547	0.20								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.004	53.428	TIC	130109	0.06								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.007	53.445	TIC	200327	0.10								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.022	53.554	TIC	631956	0.31								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.022	53.61	TIC	649090	0.32								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.007	53.628	TIC	218154	0.11								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.011	53.8	TIC	308432	0.15								
2,4-Imidazolidinedione, 5-[3,4-bis[(trimethylsilyloxy)phenyl]-	0.012	54.085	TIC	363164	0.18								
1-Monolinoleoylglycerol trimethylsilyl ether	0.465	54.241	TIC	1.37E+07	6.72								
2,5-Dimethoxy-4-(methylsulfonyl)amphetamine	0.024	0.64	TIC	760916	0.37								
N,N'-Bis(Carbobenzoyloxy)-lysine methyl(ester)	0.02	0.667	TIC	636976	0.31								
N,N'-Bis(Carbobenzoyloxy)-lysine methyl(ester)	0.009	0.705	TIC	285872	0.14								
N,N'-Bis(Carbobenzoyloxy)-lysine methyl(ester)	0.012	0.733	TIC	377538	0.18								
Glucobrassicin	0.026	0.754	TIC	801646	0.39								
9-Octadecenoic acid, 2-phenyl-1,3-dioxan-5-yl ester	0.022	0.807	TIC	677121	0.33								
Molybdenum, di-trichlorobis[(1,2,3,4,5,6-trimethylbenzene)]:	0.022	0.837	TIC	675510	0.33								
Oxirane, tetramethyl-	0.074	0.913	TIC	2.30E+06	1.13								
No Match	0.027	1.015	Unknown	830051	0.41								
Isoxazolidine, 4-ethyl-2,5-dimethyl-, trans-	0.152	1.095	TIC	4.72E+06	2.32								
No Match	0.04	1.283	Unknown	1.23E+06	0.60								
No Match	0.017	1.367	Unknown	528754	0.26								
No Match	0.014	1.403	Unknown	424003	0.21								
Butanenitrile, 2,3-dioxo-, dioxime, o,o'-diacetyl-	0.052	1.451	TIC	1.60E+06	0.79								
2H-Pyran, 3,4-dihydro-4-hydroxy-	0.041	1.523	TIC	1.27E+06	0.62								

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Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)-p-Trimethylsilyloxyphenyl-bis(trimethylsilyloxy)ethane	0.001	12.457	TIC	29011	0.01	No Match	0.016	38.076	Unknown	510915	0.25
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.058	13.233	TIC	1.82E+06	0.89	No Match	0.025	38.152	Unknown	770082	0.38
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.096	13.26	TIC	3.00E+06	1.47	No Match	0.017	38.299	Unknown	516111	0.25
1,2,4-Oxadiazole, 5-(4-nitrophenyl)-3-phenyl-	0.043	13.3	TIC	1.35E+06	0.66	No Match	0.014	38.44	Unknown	436357	0.21
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.031	13.34	TIC	978801	0.48	No Match	0.014	38.506	Unknown	426615	0.21
4-Oxo-4-(para-tolyl)-butyric acid	0.023	13.375	TIC	705743	0.35	No Match	0.017	38.641	Unknown	516773	0.25
2-Oxazolamine, 4,5-dihydro-5-(phenoxymethyl)-	0.019	13.399	TIC	584629	0.29	No Match	0.016	38.788	Unknown	501510	0.24
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.022	13.414	TIC	690143	0.34	No Match	0.039	42.379	Unknown	1.21E+06	0.59
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl)-3-Methylcyclopentadecylcarbamic acid, t-butyl ester	0.016	13.432	TIC	509008	0.25	Prosta-5,13-dien-1-oi acid, 9,11,15-tris[(trimethylsilyloxy)-,	0.053	44.388	TIC	1.64E+06	0.81
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy	0.102	13.525	TIC	3.18E+06	1.56	No Match	0.026	45.877	Unknown	803840	0.39
Androst-4-ene-3,20-dione, 11,16,22-triacetoxy-	0.022	13.563	TIC	692877	0.34	No Match	0.015	47.45	Unknown	453888	0.22
Cyclohexane, 1,3,5-trimethyl-2-octadecyl-	0.026	13.606	TIC	820385	0.40	No Match	0.021	48.307	Unknown	660075	0.32
Cholestan-3-one, cyclic 1,2-ethanediyl acetal, (5π-2H-Pyran, tetrahydro-2-(12-pentadecynoxy)-	0.016	14.711	TIC	513303	0.25	No Match	0.014	48.461	Unknown	432667	0.21
1,2-trans-1,5-trans-2,5-dihydroxy-4-methyl-1-(1-hydroxy-1-is	0.005	14.737	TIC	147214	0.07	5-Ethyl-8-(trimethylsilylmethyl)dimethylsilyloxydecane	0.175	49.903	TIC	5.46E+06	2.68
1,2-trans-1,5-trans-2,5-dihydroxy-4-methyl-1-(1-hydroxy-1-is	0.031	15.264	TIC	960709	0.47	No Match	0.021	50.715	Unknown	666273	0.33
No Match	0.015	15.592	Unknown	473383	0.23	No Match	0.013	50.861	Unknown	407317	0.20
Methyl 16-methoxyheptadecanoate	0.008	16.073	TIC	244296	0.12	No Match	0.036	51.613	Unknown	1.11E+06	0.54
No Match	0.025	16.53	Unknown	781844	0.38	No Match	0.017	51.644	Unknown	526291	0.26
No Match	0.026	16.871	Unknown	800801	0.39	No Match	0.029	51.677	Unknown	903439	0.44
No Match	0.015	16.975	Unknown	468337	0.23	No Match	0.023	51.727	Unknown	722824	0.35
No Match	0.013	17.295	Unknown	418231	0.20	No Match	0.015	51.773	Unknown	470077	0.23
No Match	0.013	17.946	Unknown	400032	0.19	No Match	0.016	51.818	Unknown	492911	0.24
Phosphonic acid, (1-methylethyl)-, bis[5-methyl-2-(1-methyl	0.02	18.785	TIC	634363	0.31	No Match	0.017	51.862	Unknown	527744	0.26
Naphthalene, 1,1'-(1,10-decanediyl)bis[decahydro-	0.068	19.412	TIC	2.12E+06	1.04	No Match	0.026	52.035	Unknown	803893	0.39
No Match	0.017	20.446	Unknown	533941	0.26	No Match	0.054	52.588	Unknown	1.68E+06	0.83
No Match	0.021	20.579	Unknown	645739	0.32	No Match	0.03	52.618	Unknown	927368	0.45
2,7-Octanedione, 4,4-dimethyl-3-[2-(1-hydroxy-1-methylethyl	0.141	21.264	TIC	4.39E+06	2.15	No Match	0.021	52.642	Unknown	664064	0.32
4-Formyl-3,5-dimethyl-1H-pyrrole-2-carbonitrile	0.01	21.355	TIC	319534	0.16	No Match	0.025	52.67	Unknown	770341	0.38
(6-Hydroxymethyl-2,3-dimethylphenyl)methanol	0.062	21.427	TIC	1.93E+06	0.95	No Match	0.017	52.733	Unknown	531877	0.26
Longifolenaldehyde	0.34	21.589	TIC	1.06E+07	5.20	No Match	0.018	52.795	Unknown	556240	0.27
No Match	0.027	21.891	Unknown	836289	0.41	No Match	0.028	52.844	Unknown	877176	0.43
No Match	0.03	21.979	Unknown	923816	0.45	No Match	0.016	52.915	Unknown	501068	0.24
Phenol, 2,4-bis(1,1-dimethylethyl)-	2.882	22.189	TIC	8.98E+07	44.10	No Match	0.02	52.921	Unknown	623873	0.30
2H-Benzocyclohepten-2-one, decahydro-9a-methyl-, trans-	0.03	22.553	TIC	940328	0.46	No Match	0.013	53.024	Unknown	411497	0.20
No Match	0.019	24.287	Unknown	579433	0.28	No Match	0.037	53.802	Unknown	1.14E+06	0.56
Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl)	0.04	25.587	TIC	1.25E+06	0.61	No Match	0.016	53.881	Unknown	497445	0.24
No Match	0.019	27.898	Unknown	577355	0.28	No Match	0.036	54.005	Unknown	1.13E+06	0.55
No Match	0.013	28.083	Unknown	408944	0.20	No Match	0.026	54.083	Unknown	821615	0.40
No Match	0.021	28.154	Unknown	659028	0.32	No Match	0.015	54.118	Unknown	458838	0.22
No Match	0.018	28.901	Unknown	555244	0.27	No Match	0.372	54.252	Unknown	1.16E+07	5.68
1-(4-Hydroxy-3,5-di-tert-butylphenyl)-2-methyl-3-morpholin	0.06	30.218	TIC	1.87E+06	0.92	No Match	0.015	54.362	Unknown	470689	0.23
No Match	0.03	30.396	Unknown	944526	0.46	No Match	0.031	54.399	Unknown	960218	0.47
7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.198	31.053	TIC	6.17E+06	3.03	No Match	0.061	54.447	Unknown	1.90E+06	0.93
No Match	0.054	31.173	Unknown	1.67E+06	0.82	No Match	0.05	54.479	Unknown	1.57E+06	0.77
No Match	0.021	32.101	Unknown	653513	0.32	No Match	0.032	54.577	Unknown	1.01E+06	0.49
No Match	0.019	32.397	Unknown	581234	0.28	No Match	0.049	54.595	Unknown	1.54E+06	0.76
No Match	0.015	35.676	Unknown	468448	0.23	No Match	0.04	54.646	Unknown	1.26E+06	0.61
No Match	0.016	36.461	Unknown	483950	0.24	No Match	0.024	54.76	Unknown	733840	0.36
No Match	0.052	36.906	Unknown	1.63E+06	0.80	No Match	0.043	54.794	Unknown	1.33E+06	0.65
No Match	0.029	36.938	Unknown	891976	0.44	No Match	0.052	54.876	Unknown	1.63E+06	0.80
No Match	0.013	37	Unknown	412215	0.20	No Match	0.026	54.908	Unknown	805030	0.39
No Match	0.017	37.042	Unknown	527955	0.26	No Match	0.077	55.044	Unknown	2.40E+06	1.18
No Match	0.021	37.198	Unknown	659371	0.32	No Match	0.02	55.094	Unknown	613564	0.30
No Match	0.019	37.23	Unknown	578321	0.28	No Match	0.044	55.573	Unknown	1.39E+06	0.68
No Match	0.057	37.358	Unknown	1.78E+06	0.87	No Match	0.043	64.778	Unknown	1.33E+06	0.65
No Match	0.013	37.533	Unknown	401603	0.20	17Alpha-ethynyl-6beta-methoxy-3alpha,5-c	0.038	0.025	TIC	883559	0.13
No Match	0.024	37.671	Unknown	739811	0.36	(2-Azirdinylethyl)amine	0.028	0.642	TIC	663652	0.32
No Match	0.019	37.899	Unknown	595850	0.29	N,N'-Bis(Carbobenzoyloxy)-lysine methyl(ester)	0.029	0.667	TIC	689477	0.34
No Match	0.015	37.961	Unknown	453655	0.22	8,11,14-Eicosatrienoic acid, methyl ester	0.039	0.724	TIC	922941	0.45
						Glucobrassicin	0.007	0.752	TIC	169061	0.08
						Chloromethanesulfonyl chloride	0.1	0.774	TIC	2.35E+06	1.15

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Gibberelic acid	0	0.886	TIC	11043	0.00	No Match	0.02	15.91	Unknown	469999	0.23
Cyclobutylamine	0.303	1.017	TIC	7.13E+06	3.50	No Match	0.024	16.083	Unknown	575861	0.28
Acetic acid, 1-methylethyl ester	0.159	1.099	TIC	3.73E+06	1.83	o-Menthane-8-ol	0.096	16.224	TIC	2.25E+06	1.10
3-Acetoxy-2-trifluoromethylbut-3-enoic acid, ethyl ester	0.023	1.157	TIC	545641	0.27	No Match	0.024	16.509	Unknown	555313	0.27
Cyclobutylamine	0.008	1.218	TIC	190684	0.09	No Match	0.026	16.538	Unknown	609595	0.30
Cyclobutylamine	0.005	1.242	TIC	108794	0.05	Thiophene, 2,5-diethyl-	0.034	18.783	TIC	809041	0.40
Guanidine	0.009	1.284	TIC	219352	0.11	No Match	0.027	20.311	Unknown	624885	0.31
Isobutane	0.002	1.329	TIC	36701	0.02	No Match	0.027	20.428	Unknown	627516	0.31
4-Heptanol, 3-ethyl-	0.142	1.526	TIC	3.35E+06	1.64	No Match	0.053	20.454	Unknown	1.25E+06	0.61
Butane, 2-chloro-2,3-dimethyl-	0.042	1.712	TIC	990492	0.49	Pyridine, 4-(1-pyrrolidinyl)-	1.647	20.883	TIC	3.87E+07	19.03
Benzoyloxymethylimine	0.02	1.921	TIC	464711	0.23	2-Methyl-5-hydroxybenzofuran	0.04	21.065	TIC	952302	0.47
Butanoic acid, 3-methyl-2-[(phenylmethoxy)imino]-, trimethyl	0.001	2.034	TIC	34986	0.02	Benzenethiol, 4-(1,1-dimethylethyl)-2-methyl-	0.398	21.257	TIC	9.36E+06	4.60
1-Propanamine, N,2-dimethyl-N-nitro-	0.023	2.266	TIC	550944	0.27	4-Formyl-3,5-dimethyl-1H-pyrrole-2-carbonitrile	0.012	21.357	TIC	283960	0.14
2,4,6-Cycloheptatrien-1-one, 3,5-bis-trimethylsilyl-	0.036	2.451	TIC	841351	0.41	Phenol, 2,4-bis(1,1-dimethylethyl)-	3.828	22.19	TIC	9.01E+07	44.25
2,4,6-Cycloheptatrien-1-one, 3,5-bis-trimethylsilyl-	0.017	2.493	TIC	404800	0.20	Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl)	0.023	25.588	TIC	535732	0.26
3-Octene, (Z)-	0.064	2.899	TIC	1.51E+06	0.74	No Match	0.018	28.169	Unknown	428519	0.21
Butanoic acid, pentyl ester	1.148	3.135	TIC	2.70E+07	13.27	1-(4-Hydroxy-3,5-di-tert-butylphenyl)-2-methyl-3-morpholin	0.039	30.216	TIC	913889	0.45
No Match	0.022	3.87	Unknown	509205	0.25	2,5-di-tert-Butyl-1,4-benzoquinone	0.059	30.398	TIC	1.38E+06	0.67
No Match	0.022	4.009	Unknown	526038	0.26	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.332	31.061	TIC	7.80E+06	3.83
No Match	0.022	4.102	Unknown	525654	0.26	No Match	0.022	42.374	Unknown	520805	0.25
Dihydroxanthin	0.001	5.811	TIC	14479	0.01	No Match	0.021	42.392	Unknown	493142	0.24
Oxirane, 2,3-diethyl-	0.069	6.374	TIC	1.62E+06	0.79	No Match	0.039	44.387	Unknown	917808	0.45
2-Cyclohexene-1-carboxylic acid, 1,3-dimethyl-2-(3-methyl-	0.003	6.497	TIC	68410	0.03	No Match	0.031	44.403	Unknown	731700	0.36
No Match	0.02	7.973	Unknown	474470	0.23	No Match	0.023	48.538	Unknown	536128	0.26
1,2-Dibutoxyethane	0.768	8.242	TIC	1.81E+07	8.87	No Match	0.039	49.398	Unknown	923682	0.45
Hexadecane, 1,1-bis(dodecyloxy)-	0.028	8.409	TIC	655274	0.32	No Match	0.039	49.942	Unknown	914577	0.45
No Match	0.018	8.486	Unknown	411788	0.20	No Match	0.018	50.025	Unknown	433511	0.21
Octadecanedioic acid	0.012	8.513	TIC	290669	0.14	No Match	0.018	50.096	Unknown	417523	0.20
Cholestan-3-one, cyclic 1,2-ethanediyl acetal, (5R-	0.032	8.557	TIC	751462	0.37	No Match	0.021	50.56	Unknown	490449	0.24
Serverogenin acetate	0.006	9.654	TIC	150958	0.07	No Match	0.017	50.611	Unknown	406207	0.20
14-Oxononadec-10-enoic acid, methyl ester	0.013	9.856	TIC	314025	0.15	No Match	0.044	51.631	Unknown	1.03E+06	0.50
Cyclopentadecanone, 4-methyl-	0.117	11.239	TIC	2.76E+06	1.35	No Match	0.02	51.73	Unknown	481488	0.23
1-Docosanol	0.112	11.271	TIC	2.63E+06	1.29	No Match	0.018	52.525	Unknown	426832	0.21
9-Octadecenoic acid (Z)-, hexyl ester	0.041	11.384	TIC	970123	0.48	No Match	0.029	52.595	Unknown	684263	0.33
4-Chloro-3-n-hexyltetrahydropyran	0.277	11.586	TIC	6.51E+06	3.20	No Match	0.025	52.622	Unknown	586477	0.29
Cyclohexane, [6-cyclopentyl-3-(3-cyclopentylpropyl)hexyl]-	0.038	11.697	TIC	905244	0.44	No Match	0.034	52.663	Unknown	789778	0.39
2-Furancarboxylic acid, propyl ester	0.038	12.011	TIC	893593	0.44	No Match	0.019	52.807	Unknown	437851	0.21
No Match	0.022	12.2	Unknown	526289	0.26	No Match	0.032	52.948	Unknown	749361	0.37
Octadecanoic acid, 1-[(tetradecyloxy)carbonyl]pentadecyl e-	0.002	12.364	TIC	53376	0.02						
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl,	0.015	12.457	TIC	341617	0.17	No Match	0.043	0.046	Unknown	629821	0.31
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl,	0.012	12.494	TIC	276272	0.13	8,11,14-Eicosatrienoic acid, methyl ester	0.042	0.645	TIC	610597	0.30
Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl,	0.004	12.516	TIC	94071	0.04	Dascycarpidan-1-methanol, acetate (ester)	0.025	0.668	TIC	371917	0.18
o-Toluic acid, 3,5-difluorophenyl ester	0.827	12.804	TIC	1.95E+07	9.56	No Match	0.063	0.751	Unknown	933379	0.46
p-Trimethylsilyloxyphenyl-bis(trimethylsilyloxy)ethane	1.369	13.052	TIC	3.22E+07	15.82	Oxirane, (1-methylbutyl)-	0.011	0.839	TIC	156124	0.08
Chrysanthemumic acid 2,4-dimethylbenzyl ester	0.137	13.242	TIC	3.23E+06	1.59	Pentane, 1-propoxy-	0.009	1.022	TIC	136063	0.07
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.153	13.261	TIC	3.58E+06	1.76	Oxirane, tetramethyl-	0.011	1.284	TIC	166401	0.08
m-Toluic acid, 2-bromo-4-fluorophenyl ester	0.052	13.328	TIC	1.23E+06	0.60	2-Heptanethiol, 2-methyl-	0.277	1.762	TIC	4.07E+06	2.00
1,2,4-Oxadiazole, 5-(4-nitrophenyl)-3-phenyl-	0.024	13.356	TIC	553279	0.27	Toluene	0.055	1.924	TIC	809289	0.40
4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.044	13.376	TIC	1.03E+06	0.50	Butanoic acid, pentyl ester	0.317	3.152	TIC	4.66E+06	2.29
1,2,4-Oxadiazole, 5-(4-nitrophenyl)-3-phenyl-	0.089	13.401	TIC	2.09E+06	1.03	Hexadecane, 1,1-bis(dodecyloxy)-	0.025	3.864	TIC	365943	0.18
4,4,8,10,14-Pentamethyl-17-(perhydro-2,6,6-trimethyl-2H-p)	0.105	13.517	TIC	2.47E+06	1.21	Benzene, 1-benzoyloxy-5-diethylamino-2,4-dinitro-	0.016	3.914	TIC	238255	0.12
Cholestan-22(26)-isooepoxy-3,16-dione	0.071	13.547	TIC	1.66E+06	0.81	3-Phenyl-propionic acid (2-hydroxy-5-nitro-benzylidene)-hyc	0.015	3.947	TIC	213474	0.10
No Match	0.023	13.599	Unknown	544860	0.27	Pseudosolasodine diacetate	0.048	4.016	TIC	699703	0.34
No Match	0.031	13.632	Unknown	728016	0.36	No Match	0.038	4.099	Unknown	558226	0.27
1b,4a-Epoxy-2H-cyclopenta[3,4]cyclopropa[8,9]cycloundec	0.009	14.106	TIC	215208	0.10	13-Docosenoic acid, methyl ester	1.246	5.671	TIC	1.83E+07	9.00
3,19,14,15-Diepoxypregnan-20-one, 3,11,18-triacetoxy-	0.005	14.132	TIC	118276	0.06	1-iso-Propyl-3,6-diazahomoadamantan-9-one	0.052	6.379	TIC	767408	0.38
Pseudosolasodine diacetate	0.005	14.165	TIC	128537	0.06	1-Hexadecanesulfonic acid, 3,5-dichloro-2,6-dimethyl-4-pyr	0.135	6.403	TIC	1.99E+06	0.96
No Match	0.021	14.724	Unknown	495247	0.24	No Match	0.031	6.506	Unknown	450070	0.22
No Match	0.026	15.01	Unknown	606472	0.30	Palmitic acid, 2-(1-octadecyloxy)ethyl ester, (E)-	0.001	7.372	TIC	10516	0.00
1,2-15,16-Diepoxyhexadecane	0.103	15.271	TIC	2.42E+06	1.19	Octane, 4-methyl-	0.075	7.549	TIC	1.11E+06	0.54
Cyclopentadecanone	0.077	15.429	TIC	1.81E+06	0.89	9-Hexadecenoic acid	0.047	7.97	TIC	684713	0.33
2-Cyclohexylpiperidine	0.071	15.446	TIC	1.66E+06	0.81	Cyclohexane, 1,1'-dodecylidenedibis[4-methyl-	0.018	8.007	TIC	271091	0.13

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Carbamic acid, (cyanomethyl)-, 1,1-dimethylethyl ester	1.122	8.237	TIC	1.65E+07	8.11	Phenol, 2,4-di- <i>t</i> -butyl-6-nitro-	0.012	25.922	TIC	183433	0.09
Cholestan-3-one, 4,4-dimethyl-, cyclic 1,2-ethanediy acetal	0.122	8.55	TIC	1.80E+06	0.88	No Match	0.031	29.029	Unknown	452344	0.22
5-(<i>p</i> -Aminophenyl)-4-(<i>p</i> -tolyl)-2-thiazolamine	0.008	8.659	TIC	111308	0.05	Hexahydro-5.lambd.a(6i)-thieno[3,4-b]pyrrol-2-one, 1-(1,5-di	0.072	30.207	TIC	1.05E+06	0.52
Tetracyclo[11.4.0.0.(1,10).0(5,9)]heptadec-12-ene-2 π 6-diol-4,5-Dimethyl-3-heptanol	0.008	8.812	TIC	117659	0.06	7,9-Di- <i>tert</i> -butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	0.14	31.057	TIC	2.07E+06	1.01
No Match	0.048	9.114	TIC	704908	0.34	No Match	0.028	31.187	Unknown	417959	0.20
No Match	0.084	9.477	Unknown	1.24E+06	0.61	Tetracosamethyl-cyclododecasiloxane	0.366	41.794	TIC	5.38E+06	2.64
No Match	0.08	9.497	Unknown	1.18E+06	0.58	Tetracosamethyl-cyclododecasiloxane	0.198	43.54	TIC	2.92E+06	1.43
3-Methoxy-3-methylbutanol	0.077	10.251	TIC	1.14E+06	0.56	No Match	0.04	44.387	Unknown	591331	0.29
Tetracyclo[11.4.0.0.(1,10).0(5,9)]heptadec-12-ene-2 π 6-diol-2-Myristinoyl pantetheine	0.011	10.44	TIC	166392	0.08	Tetracosamethyl-cyclododecasiloxane	0.197	46.665	TIC	2.90E+06	1.42
1,2-Epoxyundecane	0.002	10.837	TIC	22235	0.01	Tetracosamethyl-cyclododecasiloxane	0.116	49.359	TIC	1.70E+06	0.83
Cyclopentadecanone, 4-methyl-	0.248	11.226	TIC	2.94E+06	1.44	3-Dimethyl(trimethylsilylmethyl)silyloxyptentadecane	0.348	49.906	TIC	5.12E+06	2.51
Hexadecane, 1,1-bis(dodecyloxy)-	0.022	11.363	TIC	3.65E+06	1.79	No Match	0.049	50.562	Unknown	720926	0.35
Hexadecane, 1,1-bis(dodecyloxy)-	0.037	11.398	TIC	322476	0.16	No Match	0.031	50.973	Unknown	458207	0.22
N-[3-[N-Aziridyl]propylidene]tetrahydrofurfurylamine	0.036	11.43	TIC	539835	0.26	No Match	0.038	51.073	Unknown	560633	0.27
4-Chloro-3- <i>n</i> -hexyltetrahydropyran	0.625	11.581	TIC	530725	0.26	No Match	0.03	51.152	Unknown	437788	0.21
3-Hydroxy-4,4-dimethyl-3-(1-methyl-3-oxobut-1-enyl)cyclohex	0.014	12.031	TIC	9.19E+06	4.52	No Match	0.035	51.552	Unknown	518033	0.25
Digitoxin	0.022	12.05	TIC	201774	0.10	No Match	0.068	51.617	Unknown	997765	0.49
No Match	0.043	12.604	Unknown	324507	0.16	No Match	0.038	51.669	Unknown	558453	0.27
<i>o</i> -Toluic acid, 3,5-difluorophenyl ester	0.37	12.795	TIC	629257	0.31	No Match	0.042	51.706	Unknown	621827	0.30
<i>m</i> -Toluic acid, 3,5-difluorophenyl ester	0.072	12.957	TIC	5.45E+06	2.67	No Match	0.027	51.776	Unknown	400944	0.20
No Match	0.07	13.233	Unknown	1.07E+06	0.52	No Match	0.05	51.842	Unknown	730583	0.36
No Match	0.069	13.258	Unknown	1.02E+06	0.50	No Match	0.104	52.594	Unknown	1.53E+06	0.75
No Match	0.111	13.278	Unknown	1.02E+06	0.50	No Match	0.048	52.617	Unknown	699773	0.34
No Match	0.107	13.321	Unknown	1.63E+06	0.80	No Match	0.03	52.677	Unknown	439723	0.21
No Match	0.107	13.321	Unknown	1.57E+06	0.77	No Match	0.027	52.819	Unknown	402034	0.20
No Match	0.068	13.351	Unknown	1.57E+06	0.77	No Match	0.029	52.844	Unknown	421972	0.21
No Match	0.1	13.397	Unknown	1.00E+06	0.49	No Match	0.028	52.912	Unknown	408907	0.20
No Match	0.089	13.418	Unknown	1.47E+06	0.72	No Match	0.043	52.951	Unknown	634914	0.31
No Match	0.038	13.454	Unknown	1.31E+06	0.64	No Match	0.049	52.989	Unknown	723029	0.35
4,4,8,10,14-Pentamethyl-17-(perhydro-2,6,6-trimethyl-2H-p	0.13	13.5	TIC	552427	0.27	No Match	0.052	53.082	Unknown	771205	0.38
Cyclohexyl propylphosphonofluoridate	0.203	13.53	TIC	1.91E+06	0.94	No Match	0.033	53.162	Unknown	479224	0.23
Tetracyclo[11.4.0.0.(1,10).0(5,9)]heptadec-12-ene-2 π 6-diol	0.025	13.767	TIC	2.99E+06	1.47	No Match	0.039	53.216	Unknown	576066	0.28
Cholestan-3-one, 4,4-dimethyl-, cyclic 1,2-ethanediy acetal	0.045	13.796	TIC	366649	0.18	No Match	0.028	53.324	Unknown	405563	0.20
No Match	0.032	13.874	Unknown	656109	0.32	No Match	0.03	53.363	Unknown	435883	0.21
No Match	0.089	14.267	Unknown	472141	0.23	No Match	0.03	53.522	Unknown	435889	0.21
No Match	0.03	14.366	Unknown	1.30E+06	0.64	No Match	0.069	53.576	Unknown	1.01E+06	0.49
Lactic acid, 2-methyl-, monoanhydride with 1-butaneboronic	0.061	14.629	TIC	437567	0.21	No Match	0.061	53.62	Unknown	890666	0.44
9-Octadecenoic acid (Z)-, hexyl ester	0.012	14.655	TIC	892439	0.44	No Match	0.04	53.674	Unknown	586415	0.29
Cyclohexane, 1,3,5-trimethyl-2-octadecyl-	0.077	14.708	TIC	181123	0.09	No Match	0.056	53.698	Unknown	827392	0.40
4,4-Ethylenedioxy-1-pentylamine	0.113	14.92	TIC	1.14E+06	0.56	No Match	0.034	53.75	Unknown	503922	0.25
4,4-Ethylenedioxy-1-pentylamine	0.08	14.973	TIC	1.66E+06	0.81	No Match	0.05	53.79	Unknown	736110	0.36
No Match	0.063	15.013	Unknown	1.17E+06	0.57	No Match	0.031	53.888	Unknown	459155	0.22
1,2-15,16-Diepoxyhexadecane	0.303	15.262	TIC	924615	0.45	No Match	0.035	53.909	Unknown	519821	0.25
1,2-trans-1,5-trans-2,5-dihydroxy-4-methyl-1-(1-hydroxy-1-ic	0.431	15.427	TIC	4.46E+06	2.19	No Match	0.031	53.968	Unknown	457404	0.22
No Match	0.036	15.531	Unknown	6.34E+06	3.11	No Match	0.426	60.393	Unknown	6.26E+06	3.08
No Match	0.031	15.59	Unknown	524340	0.26	No Match	0.68	60.424	Unknown	1.00E+07	4.92
No Match	0.029	15.781	Unknown	458351	0.22	No Match	0.601	60.451	Unknown	8.83E+06	4.34
Boric acid, diethyl-, 2-acetylphenyl ester	2.52	16.722	TIC	430655	0.21	No Match	0.561	60.489	Unknown	8.25E+06	4.05
No Match	0.03	17.198	Unknown	3.71E+07	18.21	No Match	0.442	60.524	Unknown	6.51E+06	3.20
No Match	0.036	17.277	Unknown	440487	0.21	No Match	0.604	60.547	Unknown	8.89E+06	4.36
Propylphosphonic acid, di(2-methylpropyl) ester	0.048	18.775	TIC	525671	0.26	No Match	0.381	60.577	Unknown	5.60E+06	2.75
Naphthalene, 1,1'-(1,10-decanediyl)bis[decahydro-	0.055	19.409	TIC	703990	0.34	No Match	0.395	60.595	Unknown	5.80E+06	2.85
Pyrrrole-2-carbonitrile, 5-formyl-3,4-dimethyl-	0.13	21.148	TIC	810906	0.40	No Match	0.286	60.615	Unknown	4.21E+06	2.07
2,7-Octanedione, 4,4-dimethyl-3-[2-(1-hydroxy-1-methylethyl	0.504	21.259	TIC	1.91E+06	0.94	No Match	0.429	60.643	Unknown	6.31E+06	3.10
(6-Hydroxymethyl-2,3-dimethylphenyl)methanol	0.068	21.375	TIC	7.42E+06	3.64	No Match	0.639	60.668	Unknown	9.40E+06	4.62
(6-Hydroxymethyl-2,3-dimethylphenyl)methanol	0.022	21.397	TIC	1.00E+06	0.49	No Match	0.288	60.689	Unknown	4.23E+06	2.08
6,7-Epoxypregn-4-ene-9,11,18-triol-3,20-dione, 11,18-diac	0.035	21.413	TIC	316320	0.15	No Match	0.362	60.709	Unknown	5.33E+06	2.21
No Match	0.035	21.413	TIC	517790	0.25	No Match	0.68	60.744	Unknown	1.00E+07	4.92
No Match	0.035	21.768	Unknown	519963	0.25	No Match	0.792	60.779	Unknown	1.16E+07	5.72
3-Methyl-6,7-benzoisoquinoline	0.079	21.891	TIC	1.16E+06	0.57	No Match	0.573	60.812	Unknown	8.42E+06	4.14
No Match	0.036	21.966	Unknown	1.16E+06	0.57	No Match	0.686	60.852	Unknown	1.01E+07	4.96
No Match	0.099	22.542	Unknown	528962	0.26	No Match	0.301	60.875	Unknown	4.43E+06	2.17
Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl	0.103	25.586	TIC	1.45E+06	0.71	No Match					
			TIC	1.51E+06	0.74	No Match					

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No Match	0.394	60.889	Unknown	5.80E+06	2.85	No Match	0.287	62.532	Unknown	4.23E+06	2.08
No Match	0.618	60.921	Unknown	9.08E+06	4.46	No Match	0.208	62.564	Unknown	3.06E+06	1.50
No Match	0.408	60.949	Unknown	6.01E+06	2.95	No Match	0.386	62.584	Unknown	5.67E+06	2.79
No Match	0.219	60.965	Unknown	3.22E+06	1.58	No Match	0.249	62.605	Unknown	3.66E+06	1.80
No Match	0.513	60.987	Unknown	7.54E+06	3.70	No Match	0.377	62.639	Unknown	5.54E+06	2.72
No Match	0.677	61.019	Unknown	9.96E+06	4.89	No Match	0.232	62.659	Unknown	3.41E+06	1.67
No Match	0.385	61.056	Unknown	5.66E+06	2.78	No Match	0.234	62.681	Unknown	3.45E+06	1.69
No Match	0.313	61.075	Unknown	4.60E+06	2.26	No Match	0.191	62.698	Unknown	2.80E+06	1.38
No Match	0.578	61.095	Unknown	8.51E+06	4.18	No Match	0.413	62.732	Unknown	6.07E+06	2.98
No Match	0.561	61.146	Unknown	8.26E+06	4.05	No Match	0.458	62.77	Unknown	6.74E+06	3.31
No Match	0.276	61.166	Unknown	4.06E+06	1.99	No Match	0.127	62.794	Unknown	1.87E+06	0.91
No Match	0.247	61.185	Unknown	3.63E+06	1.78	No Match	0.278	62.808	Unknown	4.09E+06	2.01
No Match	0.224	61.208	Unknown	3.30E+06	1.62	No Match	0.283	62.827	Unknown	4.17E+06	2.05
No Match	0.302	61.228	Unknown	4.44E+06	2.18	No Match	0.458	62.876	Unknown	6.73E+06	3.31
No Match	0.373	61.239	Unknown	5.49E+06	2.69	No Match	0.204	62.9	Unknown	3.00E+06	1.47
No Match	0.256	61.26	Unknown	3.77E+06	1.85	No Match	0.159	62.919	Unknown	2.33E+06	1.14
No Match	0.288	61.279	Unknown	4.24E+06	2.08	No Match	0.186	62.937	Unknown	2.74E+06	1.34
No Match	0.44	61.303	Unknown	6.48E+06	3.18	No Match	0.107	62.956	Unknown	1.57E+06	0.77
No Match	0.673	61.335	Unknown	9.90E+06	4.86	No Match	0.201	62.972	Unknown	2.95E+06	1.45
No Match	0.275	61.37	Unknown	4.05E+06	1.99	No Match	0.136	62.994	Unknown	1.99E+06	0.98
No Match	0.276	61.388	Unknown	4.06E+06	1.99	No Match	0.291	63.026	Unknown	4.27E+06	2.10
No Match	0.371	61.406	Unknown	5.46E+06	2.68	No Match	0.176	63.048	Unknown	2.59E+06	1.27
No Match	0.221	61.43	Unknown	3.25E+06	1.59	No Match	0.234	63.084	Unknown	3.44E+06	1.69
No Match	0.348	61.444	Unknown	5.12E+06	2.51	No Match	0.183	63.102	Unknown	2.70E+06	1.32
No Match	0.262	61.46	Unknown	3.86E+06	1.89	No Match	0.154	63.121	Unknown	2.27E+06	1.11
No Match	0.383	61.483	Unknown	5.63E+06	2.76	No Match	0.144	63.144	Unknown	2.12E+06	1.04
No Match	0.254	61.5	Unknown	3.74E+06	1.83	No Match	0.164	63.155	Unknown	2.42E+06	1.19
No Match	0.3	61.515	Unknown	4.41E+06	2.17	No Match	0.16	63.18	Unknown	2.35E+06	1.15
No Match	0.379	61.541	Unknown	5.58E+06	2.74	No Match	0.299	63.207	Unknown	4.40E+06	2.16
No Match	0.505	61.572	Unknown	7.42E+06	3.65	No Match	0.255	63.236	Unknown	3.75E+06	1.84
2,4-Imidazolidinedione, 5-[3,4-bis(trimethylsilyloxy)phenyl]	0.262	61.592	TIC	3.86E+06	1.89	No Match	0.204	63.259	Unknown	3.00E+06	1.47
No Match	0.254	61.614	Unknown	3.73E+06	1.83	No Match	0.2	63.28	Unknown	2.94E+06	1.44
No Match	0.341	61.628	Unknown	5.02E+06	2.46	No Match	0.234	63.303	Unknown	3.44E+06	1.69
No Match	0.448	61.651	Unknown	6.59E+06	3.24	No Match	0.167	63.322	Unknown	2.46E+06	1.21
No Match	0.311	61.676	Unknown	4.57E+06	2.24	No Match	0.13	63.345	Unknown	1.91E+06	0.94
No Match	0.647	61.718	Unknown	9.51E+06	4.67	No Match	0.142	63.359	Unknown	2.10E+06	1.03
No Match	0.485	61.754	Unknown	7.13E+06	3.50	No Match	0.139	63.379	Unknown	2.05E+06	1.01
No Match	0.286	61.775	Unknown	4.21E+06	2.07	No Match	0.121	63.397	Unknown	1.78E+06	0.87
No Match	0.3	61.797	Unknown	4.41E+06	2.17	No Match	0.16	63.417	Unknown	2.36E+06	1.16
No Match	0.747	61.824	Unknown	1.10E+07	5.39	No Match	0.107	63.438	Unknown	1.57E+06	0.77
No Match	0.46	61.872	Unknown	6.76E+06	3.32	No Match	0.223	63.453	Unknown	3.28E+06	1.61
No Match	0.374	61.903	Unknown	5.51E+06	2.70	No Match	0.127	63.472	Unknown	1.87E+06	0.92
No Match	0.426	61.927	Unknown	6.26E+06	3.07	No Match	0.133	63.488	Unknown	1.96E+06	0.96
No Match	0.378	61.959	Unknown	5.56E+06	2.73	No Match	0.106	63.507	Unknown	1.55E+06	0.76
No Match	0.319	61.988	Unknown	4.69E+06	2.30	No Match	0.224	63.529	Unknown	3.30E+06	1.62
No Match	0.315	62.015	Unknown	4.63E+06	2.27	No Match	0.326	63.57	Unknown	4.80E+06	2.36
No Match	0.52	62.043	Unknown	7.65E+06	3.76	No Match	0.413	63.617	Unknown	6.08E+06	2.98
No Match	0.371	62.088	Unknown	5.46E+06	2.68	No Match	0.188	63.638	Unknown	2.76E+06	1.36
No Match	0.624	62.142	Unknown	9.18E+06	4.51	No Match	0.246	63.668	Unknown	3.61E+06	1.77
No Match	0.296	62.164	Unknown	4.36E+06	2.14	No Match	0.204	63.697	Unknown	3.01E+06	1.48
No Match	0.297	62.182	Unknown	4.36E+06	2.14	No Match	0.165	63.728	Unknown	2.43E+06	1.19
No Match	0.179	62.214	Unknown	2.63E+06	1.29	No Match	0.057	63.748	Unknown	838946	0.41
No Match	0.218	62.224	Unknown	3.21E+06	1.57	No Match	0.085	63.767	Unknown	1.25E+06	0.61
No Match	0.36	62.251	Unknown	5.29E+06	2.60	No Match	0.115	63.788	Unknown	1.69E+06	0.83
No Match	0.159	62.274	Unknown	2.33E+06	1.14	No Match	0.215	63.808	Unknown	3.16E+06	1.55
No Match	0.57	62.302	Unknown	8.39E+06	4.12	No Match	0.095	63.832	Unknown	1.40E+06	0.68
No Match	0.597	62.351	Unknown	8.78E+06	4.31	No Match	0.142	63.859	Unknown	2.09E+06	1.08
No Match	0.324	62.392	Unknown	4.77E+06	2.34	No Match	0.198	63.89	Unknown	2.91E+06	1.43
No Match	0.324	62.42	Unknown	4.77E+06	2.34	No Match	0.099	63.914	Unknown	1.45E+06	0.71
No Match	0.329	62.445	Unknown	4.84E+06	2.38	No Match	0.141	63.932	Unknown	2.07E+06	1.02
No Match	0.499	62.487	Unknown	7.33E+06	3.60	No Match	0.227	63.955	Unknown	3.34E+06	1.64
No Match	0.2	62.51	Unknown	2.95E+06	1.45	No Match	0.145	64.002	Unknown	2.13E+06	1.04

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No Match	0.099	64.025	Unknown	1.45E+06	0.71						
No Match	0.069	64.043	Unknown	1.02E+06	0.50	Pyrrolidine, 1-(1-oxo-2,5-octadecadienyl)-	0.018	9.853	TIC	549490	0.27
No Match	0.092	64.06	Unknown	1.35E+06	0.66	2,2,4-Trimethyl-3-pentanol	0.062	10.247	TIC	1.84E+06	0.90
No Match	0.166	64.087	Unknown	2.45E+06	1.20	1,2-Epoxyundecane	0.097	11.229	TIC	2.87E+06	1.41
No Match	0.123	64.114	Unknown	1.82E+06	0.89	8-Dodecen-1-ol, acetate, (Z)-	0.057	11.275	TIC	1.69E+06	0.83
No Match	0.136	64.136	Unknown	2.00E+06	0.98	4-Chloro-3-n-hexyltetrahydropyran	0.237	11.583	TIC	7.05E+06	3.46
No Match	0.092	64.154	Unknown	1.36E+06	0.67	Methanethione, (2,5-dimethylphenyl)-(2,4,6-trimethylphenyl),	0.01	12.447	TIC	293096	0.14
No Match	0.183	64.174	Unknown	2.69E+06	1.32	No Match	0.043	12.64	Unknown	1.28E+06	0.63
No Match	0.112	64.209	Unknown	1.65E+06	0.81	Benzaldehyde, 2-(3-methylbenzoyloxy)-, (4-nitrophenyl)hydr	0.275	12.795	TIC	8.19E+06	4.02
No Match	0.189	64.235	Unknown	2.79E+06	1.37	p-Trimethylsilyloxyphenyl-bis(trimethylsilyloxy)ethane	0.965	13.049	TIC	2.87E+07	14.10
No Match	0.105	64.268	Unknown	1.54E+06	0.76	4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.127	13.245	TIC	3.78E+06	1.86
No Match	0.142	64.28	Unknown	2.09E+06	1.03	4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.199	13.265	TIC	5.92E+06	2.91
No Match	0.061	64.303	Unknown	892414	0.44	4-(1,5-Dihydrobenzo[e][1,3,2]dioxaborepin-3-yl)benzoic acid	0.027	13.383	TIC	797047	0.39
No Match	0.115	64.319	Unknown	1.70E+06	0.83	4-Oxo-4-(para-tolyl)-butyric acid	0.023	13.404	TIC	672959	0.33
No Match	0.115	64.336	Unknown	1.70E+06	0.83	4-Oxo-4-(para-tolyl)-butyric acid	0.026	13.422	TIC	759643	0.37
No Match	0.114	64.36	Unknown	1.67E+06	0.82	Acetic acid, 6-morpholin-4-yl-9-oxobicyclo[3.3.1]non-3-yl es	0.124	13.517	TIC	3.69E+06	1.81
No Match	0.193	64.393	Unknown	2.84E+06	1.39	No Match	0.051	13.562	Unknown	1.52E+06	0.75
No Match	0.103	64.412	Unknown	1.52E+06	0.75	No Match	0.021	13.619	Unknown	610741	0.30
No Match	0.152	64.435	Unknown	2.23E+06	1.10	.psi.,psi.-Carotene, 3,4-didehydro-1,1',2,2'-tetrahydro-1'-hy	0.003	13.944	TIC	78543	0.04
No Match	0.112	64.468	Unknown	1.65E+06	0.81	No Match	0.017	14.264	Unknown	508471	0.25
No Match	0.07	64.482	Unknown	1.03E+06	0.51	No Match	0.013	14.397	Unknown	401564	0.20
No Match	0.112	64.506	Unknown	1.65E+06	0.81	No Match	0.018	14.736	Unknown	527416	0.26
No Match	0.133	64.525	Unknown	1.96E+06	0.96	Allopregnane-7 π 11 π diol-3,20-dione	0.004	14.779	TIC	124730	0.06
No Match	0.23	64.552	Unknown	3.38E+06	1.66	2,6-Octadienal, 3,7-dimethyl-	0.074	15.267	TIC	2.21E+06	1.08
No Match	0.121	64.594	Unknown	1.78E+06	0.87	Geranyl vinyl ether	0.129	15.432	TIC	3.83E+06	1.88
No Match	0.107	64.631	Unknown	1.58E+06	0.77	Methyl 16-methoxyheptadecanoate	0.027	16.22	TIC	817562	0.40
No Match	0.065	64.658	Unknown	958978	0.47	1H-Pyrazole, 4-(trimethylsilyl)-	0.122	17.098	TIC	3.62E+06	1.78
No Match	0.051	64.681	Unknown	752951	0.37	para-Methoxybenzenethiol	0.025	18.78	TIC	731928	0.36
No Match	0.057	64.7	Unknown	835958	0.41	No Match	0.014	19.298	Unknown	421063	0.21
No Match	0.074	64.715	Unknown	1.09E+06	0.54	Naphthalene, 1,1'-(1,10-decanediyl)bis[decahydro-	0.022	19.394	TIC	659712	0.32
No Match	0.085	64.758	Unknown	1.25E+06	0.61	No Match	0.051	20.438	Unknown	1.51E+06	0.74
No Match	0.042	64.778	Unknown	620244	0.30	No Match	0.034	20.461	Unknown	1.01E+06	0.50
(2-Azindinylethyl)amine	0.052	0.64	TIC	1.55E+06	0.76	Pyridine, 4-(1-pyrrolidinyl)-	1.344	20.878	TIC	4.00E+07	19.64
1H-2,8a-Methanocyclopenta[a]cyclopropa[e]cyclodecen-11	0.022	0.728	TIC	663921	0.32	Pyrrole-2-carbonitrile, 5-formyl-3,4-dimethyl-	0.074	21.119	TIC	2.20E+06	1.08
2,6-Bis[2-[2-S-thiosulfuroethylamino]ethoxy]pyrazine	0.032	0.769	TIC	958141	0.47	(6-Hydroxymethyl-2,3-dimethylphenyl)methanol	0.033	21.191	TIC	983363	0.48
9-Octadecenoic acid, 2-phenyl-1,3-dioxan-5-yl ester	0.007	0.808	TIC	221033	0.11	2,7-Octanedione, 4,4-dimethyl-3-[2-(1-hydroxy-1-methyleth	0.091	21.254	TIC	2.70E+06	1.33
Butyl aldoxime, 3-methyl-, syn-	0.044	0.915	TIC	1.30E+06	0.64	No Match	0.017	21.312	Unknown	516944	0.25
Acetic anhydride	0.209	1.057	TIC	6.22E+06	3.05	No Match	0.022	21.369	Unknown	641324	0.31
Acetic acid, 1-methylethyl ester	0.213	1.102	TIC	6.35E+06	3.12	No Match	0.025	21.402	Unknown	754943	0.37
4-Hydroxy-3-hexanone	0.014	1.292	TIC	415215	0.20	No Match	0.034	21.427	Unknown	1.02E+06	0.50
4-Heptanol, 3-ethyl-	0.17	1.527	TIC	5.07E+06	2.49	No Match	0.015	21.473	Unknown	443036	0.22
No Match	0.014	1.619	Unknown	404823	0.20	Phenol, 2,4-bis(1,1-dimethylethyl)-	3.17	22.185	TIC	9.43E+07	46.34
No Match	0.017	1.657	Unknown	519679	0.25	2(1H)-Benzocyclooctenone, decahydro-4a-methyl-, trans(-)	0.031	22.549	TIC	929061	0.45
Propanoic acid, butyl ester	0.001	1.891	TIC	31339	0.01	2-Trifluoromethylbenzoic acid, 4-pentadecyl ester	0.018	25.576	TIC	549109	0.27
Benzene, 1-benzoyloxy-5-diethylamino-2,4-dinitro-	0.01	1.962	TIC	282777	0.14	Butanamide, N-methyl-4-(methylthio)-2-(2,2-dimethylpropyl)	0.012	25.595	TIC	354764	0.17
1-Propanamine, N,2-dimethyl-N-nitro-	0.023	2.274	TIC	684346	0.33	Hexahydro-5.lambda.(6)-thieno[3,4-b]pyrrol-2-one, 1-(1,5-di	0.031	30.201	TIC	921914	0.45
2,4,6-Cycloheptatrien-1-one, 3,5-bis-trimethylsilyl-	0.05	2.463	TIC	1.50E+06	0.74	Tetracosamethyl-cyclododecasiloxane	0.189	48.067	TIC	5.62E+06	2.76
Trimethyl[4-(1,1,3,3,3-tetramethylbutyl)phenoxy]silane	0.007	2.644	TIC	204318	0.10	No Match	0.023	51.539	Unknown	670986	0.33
Z-1,9-Hexadecadiene	0.085	2.908	TIC	2.53E+06	1.24						
Butanoic acid, pentyl ester	1.09	3.144	TIC	3.24E+07	15.93						
Butanoic acid, pentyl ester	0.002	3.273	TIC	61169	0.03						
2,4-Dimethyl-1-hexene	0.024	3.874	TIC	724774	0.35						
Propane, 2,2-[methylenebis(oxy)]bis[2-methyl-	0.016	4.098	TIC	461230	0.22						
8-Hydroxy-2-octanone	1.084	5.68	TIC	3.23E+07	15.85						
Pyrrolidine, 1-(1-oxo-2,5-octadecadienyl)-	0.001	5.795	TIC	27105	0.01						
4-Octadecenal	0.075	6.402	TIC	2.24E+06	1.10						
Butane, 1-(ethenyl)-3-methyl-	0.061	7.539	TIC	1.82E+06	0.89						
No Match	0.019	7.786	Unknown	557122	0.27						
1-Tricosanol	0.015	7.972	TIC	453338	0.22						
2,2-Dimethylpropionic acid, isopropyl ester	0.951	8.238	TIC	2.83E+07	13.90						
N-Formyl-d-threo-O-methylthreonine	0.052	9.118	TIC	1.54E+06	0.75						

Sweat Extract

RT (min)	Peak Name	Result Typ.	Area	Amount/RF
56.571	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.01E+08	0.253
56.655	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.34E+08	0.336
56.813	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.02E+08	0.254
3.24	Methanecarbohiolic acid	TIC	1.15E+08	0.57
59.673	Cholestane, 3,5-dichloro-6-nitro-, (3.be	TIC	1.54E+08	0.762
59.716	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.83E+08	0.905
60.755	Trilinolein	TIC	9.99E+07	0.494
63.276	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.04E+08	0.515
14.654	o-Toluic acid, 2-methylphenyl ester	TIC	1.27E+08	0.324
20.659	Hexadecane, 1,1-bis(dodecyloxy)-	TIC	1.02E+08	0.26
21.13	nD-Xylofuranoside, methyl 2,5-di-O-methyl-	TIC	3.71E+08	0.949
23.346	1-Hexadecanol, 2-methyl-	TIC	6.95E+08	1.776
27.874	Hexadecane, 1,1-bis(dodecyloxy)-	TIC	1.11E+08	0.284
30.201	1-Hexadecanol, 2-methyl-	TIC	1.72E+08	0.441
30.235	Octadecane, 1,1'-[(1-methyl-1,2-ethanediy)bis(oxy)]bis-	TIC	1.03E+08	0.263
30.968	1,1-Cyclobutanedicarboxamide, 2-phenyl-N,N'-bis(1-phenylethyl)-	TIC	1.72E+08	0.44
31.689	(R)-(-)-(Z)-14-Methyl-8-hexadecen-1-ol	TIC	1.87E+08	0.477
31.932	Glycine, N-[(3n5n12n-24-oxo-3,12-bis(trimethylsilyloxy)cholane-24-yl)-, methyl	TIC	4.28E+08	1.094
32.222	Phthalic acid, 6-ethyl-3-octyl butyl ester	TIC	2.28E+08	0.584
32.473	7-Heptadecene, 17-chloro-	TIC	2.81E+08	0.718
32.917	Benzene, (1-methyldodecyl)-	TIC	5.73E+08	1.464
33.347	Pentadecanoic acid, 13-methyl-, methyl ester	TIC	3.76E+08	0.961
33.684	Benzene, (1-propylheptadecyl)-	TIC	1.76E+08	0.45
34.244	Benzene, (1-ethyloctyl)-	TIC	1.66E+08	0.425
34.406	Phthalic acid, butyl hex-2-yn-4-yl ester	TIC	3.03E+08	0.776
35.159	Benzene, (1-methyldecyl)-	TIC	1.27E+08	0.324
35.176	Benzene, (1-methyldecyl)-	TIC	1.80E+08	0.46
35.346	Hexadecanoic acid, octadecyl ester	TIC	2.43E+08	0.622
36.795	17-Pentatriacontene	TIC	1.06E+08	0.271
37.048	9-Octadecenoic acid (Z)-, 2-hydroxy-1-(hydroxymethyl)ethyl ester	TIC	1.58E+08	0.405
40.144	9-Hexadecenoic acid, eicosyl ester, (Z)-	TIC	1.05E+08	0.268
59.652	No Match	Unknown	2.11E+08	0.539
59.72	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.35E+08	0.345
60.055	Cholestano[7,8-a]cyclobutane, 3-methoxy-6-oxo-2'-methylene-	TIC	1.69E+08	0.432
60.384	(22S)-21-Acetoxy-6n11ndihydroxy-16n17npropylmethylenedioxypregna-1,4-d	TIC	1.56E+08	0.4
60.463	Cholestano[7,8-a]cyclobutane, 3-methoxy-6-oxo-2'-methylene-	TIC	1.51E+08	0.385
60.667	(22S)-21-Acetoxy-6n11ndihydroxy-16n17npropylmethylenedioxypregna-1,4-d	TIC	1.59E+08	0.407
60.7	No Match	Unknown	1.86E+08	0.476
1,4:5,8-Dimethanonaphthalene-2,3-diol, 5,6,7,8,9,9-hexachloro-1,2,3,4,4a,5,8a-octahydro-, diacetate, (1n2n3n4n4n5n8n8an-				
60.86		TIC	1.22E+08	0.313
60.92	No Match	Unknown	1.57E+08	0.401
60.951	No Match	Unknown	1.24E+08	0.316
61.079	No Match	Unknown	1.30E+08	0.333
61.145	No Match	Unknown	1.18E+08	0.302
61.214	4,15-Diazacycloheptadecane-3,16-dione, 4,15-dihexyl-1-oxa	TIC	1.11E+08	0.284
61.237	No Match	Unknown	1.74E+08	0.445
61.349	No Match	Unknown	1.56E+08	0.4
61.365	No Match	Unknown	1.30E+08	0.332
61.405	No Match	Unknown	1.03E+08	0.263
61.439	No Match	Unknown	1.78E+08	0.454
61.599	No Match	Unknown	1.07E+08	0.273
61.718	No Match	Unknown	1.13E+08	0.288
61.756	No Match	Unknown	1.03E+08	0.262
61.801	No Match	Unknown	1.58E+08	0.403
61.833	No Match	Unknown	1.12E+08	0.286
61.932	No Match	Unknown	1.62E+08	0.415
62.109	No Match	Unknown	1.72E+08	0.441
62.154	No Match	Unknown	1.79E+08	0.456
62.244	No Match	Unknown	1.01E+08	0.258
62.306	No Match	Unknown	1.18E+08	0.302
62.349	No Match	Unknown	1.23E+08	0.315
62.432	No Match	Unknown	1.32E+08	0.339
62.519	No Match	Unknown	1.00E+08	0.256

RT (min)	Peak Name	Result Typ.	Area	Amount/RF
62.548	1,4:5,8-Dimethanonaphthalene-2,3-diol, 5,6,7,8,9,9-hexachloro-1,2,3,4,4a,5,8a-octahydro-, diacetate, (1n2n3n4n4n5n8n8an-	TIC	1.17E+08	0.298
32.207	1,2-Benzenedicarboxylic acid, butyl 2-methylpropyl ester	TIC	2.55E+08	1.431
57.717	psi.,psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-dimethoxy-	TIC	1.04E+08	0.582
57.942	psi.,psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-bis(trimethylsilyloxy)-	TIC	1.02E+08	0.57
58.793	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandro-8-en-17-yl)-	TIC	1.17E+08	0.656
59.005	psi.,psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-bis(trimethylsilyloxy)-	TIC	1.00E+08	0.564
59.218	Rhodopin	TIC	1.04E+08	0.587
59.408	Rhodopin	TIC	1.01E+08	0.565
59.717	psi.,psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-bis(trimethylsilyloxy)-	TIC	1.03E+08	0.578
59.884	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandro-8-en-17-yl)-	TIC	1.14E+08	0.642
60.251	1,3-Dichloro-1,3-bis(norbomadien-2-yl)-1,3-bis(3-trimethylsilyloxypropyl)disiloxan	TIC	1.25E+08	0.705
60.595	psi.,psi.-Carotene, 1,1',2,2'-tetrahydro-1,1'-bis(trimethylsilyloxy)-	TIC	1.27E+08	0.712
61.403	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandro-8-en-17-yl)-	TIC	1.10E+08	0.62
14.654	4-Hydroxymandelic acid, ethyl ester, di-TMS	TIC	1.64E+08	0.374
23.307	Cyclododecane	TIC	2.00E+08	0.458
27.848	(R)-(-)-(Z)-14-Methyl-8-hexadecen-1-ol	TIC	2.42E+08	0.554
28.741	Hexadecane, 1,1-bis(dodecyloxy)-	TIC	1.07E+08	0.246
56.385	No Match	Unknown	1.29E+08	0.295
56.44	No Match	Unknown	2.11E+08	0.482
56.476	No Match	Unknown	1.26E+08	0.288
56.519	No Match	Unknown	2.03E+08	0.464
56.55	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandro-8-en-17-yl)-	TIC	1.03E+08	0.236
56.612	No Match	Unknown	1.32E+08	0.302
56.645	No Match	Unknown	1.82E+08	0.416
56.725	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandro-8-en-17-yl)-	TIC	1.11E+08	0.253
56.861	No Match	Unknown	2.04E+08	0.466
56.911	No Match	Unknown	1.26E+08	0.288
57.02	No Match	Unknown	1.79E+08	0.409
57.059	No Match	Unknown	1.61E+08	0.369
57.131	No Match	Unknown	1.26E+08	0.289
57.167	No Match	Unknown	1.30E+08	0.298
57.223	No Match	Unknown	1.07E+08	0.246
57.258	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.28E+08	0.294
57.303	3,5,9-Trioxa-5-phosphaheptacos-18-en-1-a	TIC	1.40E+08	0.319
57.339	No Match	Unknown	1.36E+08	0.31
57.373	No Match	Unknown	2.06E+08	0.47
57.414	No Match	Unknown	1.00E+08	0.229
57.43	No Match	Unknown	1.24E+08	0.283
57.468	No Match	Unknown	2.29E+08	0.525
57.515	No Match	Unknown	2.43E+08	0.555
57.595	No Match	Unknown	2.20E+08	0.502
57.636	No Match	Unknown	1.18E+08	0.27
57.672	No Match	Unknown	2.07E+08	0.473
57.725	No Match	Unknown	2.66E+08	0.609
57.762	No Match	Unknown	1.84E+08	0.42
57.8	No Match	Unknown	2.09E+08	0.478
57.818	No Match	Unknown	1.39E+08	0.317
57.848	No Match	Unknown	3.04E+08	0.696
57.914	No Match	Unknown	2.75E+08	0.63
57.948	No Match	Unknown	1.71E+08	0.391
57.971	No Match	Unknown	1.99E+08	0.456
58.002	No Match	Unknown	2.31E+08	0.528
58.037	No Match	Unknown	2.43E+08	0.556
58.12	No Match	Unknown	2.00E+08	0.457
58.158	No Match	Unknown	1.06E+08	0.242
58.183	No Match	Unknown	1.76E+08	0.403
58.218	No Match	Unknown	2.81E+08	0.643
58.249	No Match	Unknown	2.63E+08	0.602
58.289	No Match	Unknown	2.68E+08	0.612
58.332	No Match	Unknown	3.12E+08	0.713
58.376	No Match	Unknown	2.99E+08	0.683
58.465	No Match	Unknown	3.04E+08	0.696
58.49	No Match	Unknown	1.20E+08	0.273
58.535	No Match	Unknown	2.12E+08	0.485
58.582	No Match	Unknown	3.35E+08	0.766
58.621	No Match	Unknown	2.45E+08	0.561
58.655	No Match	Unknown	2.21E+08	0.506
58.684	No Match	Unknown	2.06E+08	0.471

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58.711	No Match	Unknown	1.22E+08	0.279	61.151	No Match	Unknown	1.52E+08	0.347
58.76	No Match	Unknown	2.86E+08	0.654	61.196	No Match	Unknown	1.27E+08	0.29
58.81	No Match	Unknown	2.40E+08	0.549	61.24	No Match	Unknown	1.03E+08	0.235
58.855	No Match	Unknown	3.16E+08	0.723	61.294	No Match	Unknown	2.60E+08	0.595
58.886	No Match	Unknown	1.54E+08	0.353	61.335	No Match	Unknown	1.01E+08	0.23
58.905	No Match	Unknown	1.33E+08	0.304	61.352	No Match	Unknown	1.10E+08	0.252
58.924	No Match	Unknown	1.70E+08	0.388	61.374	No Match	Unknown	1.14E+08	0.261
58.998	No Match	Unknown	3.14E+08	0.719	61.4	No Match	Unknown	1.22E+08	0.279
59.022	No Match	Unknown	1.56E+08	0.356	61.452	No Match	Unknown	1.64E+08	0.375
59.062	No Match	Unknown	3.59E+08	0.822	61.506	No Match	Unknown	1.36E+08	0.311
59.1	No Match	Unknown	2.86E+08	0.654	61.534	No Match	Unknown	1.77E+08	0.404
59.135	No Match	Unknown	1.15E+08	0.262	61.575	No Match	Unknown	2.56E+08	0.586
59.152	No Match	Unknown	2.62E+08	0.599	61.663	No Match	Unknown	1.40E+08	0.319
59.192	No Match	Unknown	1.12E+08	0.257	61.705	No Match	Unknown	1.45E+08	0.332
59.207	No Match	Unknown	1.95E+08	0.446	61.731	No Match	Unknown	1.28E+08	0.294
59.235	No Match	Unknown	2.71E+08	0.62	61.757	No Match	Unknown	1.23E+08	0.282
59.281	No Match	Unknown	1.82E+08	0.416	61.783	No Match	Unknown	1.08E+08	0.246
59.318	No Match	Unknown	2.46E+08	0.562	61.813	No Match	Unknown	1.51E+08	0.346
59.357	No Match	Unknown	1.17E+08	0.267	61.856	No Match	Unknown	1.88E+08	0.429
59.371	No Match	Unknown	1.75E+08	0.4	61.895	No Match	Unknown	1.33E+08	0.303
59.407	No Match	Unknown	2.15E+08	0.492	61.946	No Match	Unknown	1.63E+08	0.374
59.44	No Match	Unknown	1.93E+08	0.44	61.99	No Match	Unknown	1.20E+08	0.275
59.486	No Match	Unknown	3.00E+08	0.685	62.033	No Match	Unknown	1.17E+08	0.266
59.521	No Match	Unknown	1.56E+08	0.358	62.071	No Match	Unknown	1.68E+08	0.385
59.557	No Match	Unknown	2.64E+08	0.604	62.162	No Match	Unknown	1.19E+08	0.272
59.603	No Match	Unknown	2.70E+08	0.617	62.246	No Match	Unknown	1.22E+08	0.28
59.631	No Match	Unknown	1.09E+08	0.248	62.292	No Match	Unknown	1.03E+08	0.235
59.659	No Match	Unknown	2.78E+08	0.635	62.309	No Match	Unknown	1.54E+08	0.352
59.718	No Match	Unknown	1.57E+08	0.359	62.361	No Match	Unknown	1.74E+08	0.398
59.744	No Match	Unknown	2.06E+08	0.471	62.474	No Match	Unknown	1.12E+08	0.257
59.767	No Match	Unknown	1.56E+08	0.358	62.527	No Match	Unknown	1.31E+08	0.299
59.819	No Match	Unknown	3.60E+08	0.824	62.575	No Match	Unknown	1.29E+08	0.294
59.877	No Match	Unknown	3.21E+08	0.735	62.612	No Match	Unknown	1.31E+08	0.3
59.905	No Match	Unknown	1.60E+08	0.366	62.656	No Match	Unknown	2.10E+08	0.48
59.937	No Match	Unknown	2.52E+08	0.575	62.706	No Match	Unknown	1.31E+08	0.299
59.978	No Match	Unknown	2.36E+08	0.541	62.748	No Match	Unknown	1.45E+08	0.331
60.002	No Match	Unknown	1.78E+08	0.407	62.801	No Match	Unknown	1.29E+08	0.294
60.036	No Match	Unknown	2.14E+08	0.49	62.839	No Match	Unknown	1.53E+08	0.35
60.069	No Match	Unknown	2.29E+08	0.523	62.93	No Match	Unknown	1.11E+08	0.254
60.101	No Match	Unknown	1.67E+08	0.382	62.963	No Match	Unknown	1.19E+08	0.272
60.145	No Match	Unknown	2.32E+08	0.53					
60.193	No Match	Unknown	2.95E+08	0.676	21.454	No Match	Unknown	1.07E+08	0.157
60.236	No Match	Unknown	2.05E+08	0.469	25.073	No Match	Unknown	1.14E+08	0.167
60.27	No Match	Unknown	1.45E+08	0.332	25.212	No Match	Unknown	1.26E+08	0.185
60.292	No Match	Unknown	1.31E+08	0.3	25.28	No Match	Unknown	1.27E+08	0.187
60.324	No Match	Unknown	2.70E+08	0.618	26.782	No Match	Unknown	1.23E+08	0.181
60.377	No Match	Unknown	1.28E+08	0.293	27.046	No Match	Unknown	1.28E+08	0.188
60.412	No Match	Unknown	1.71E+08	0.391	27.184	No Match	Unknown	1.07E+08	0.157
60.43	No Match	Unknown	1.01E+08	0.232	27.218	No Match	Unknown	1.04E+08	0.153
60.454	No Match	Unknown	1.50E+08	0.343	27.344	No Match	Unknown	1.49E+08	0.22
60.484	No Match	Unknown	1.50E+08	0.343	27.479	No Match	Unknown	1.11E+08	0.164
60.513	No Match	Unknown	1.74E+08	0.397	27.603	2-Butenoic acid, 2-methyl-, 2-(acetyloxy)-1,1a,2,3,4,6,7,10,11,11a-decahydric	TIC	1.51E+08	0.223
60.539	No Match	Unknown	1.30E+08	0.298	27.735	No Match	Unknown	1.28E+08	0.188
60.589	No Match	Unknown	1.30E+08	0.297	27.918	No Match	Unknown	1.02E+08	0.15
60.605	No Match	Unknown	1.59E+08	0.363	28.047	No Match	Unknown	1.16E+08	0.172
60.635	No Match	Unknown	1.03E+08	0.236	28.187	No Match	Unknown	1.40E+08	0.206
60.65	No Match	Unknown	1.22E+08	0.278	28.232	No Match	Unknown	1.36E+08	0.201
60.675	No Match	Unknown	1.40E+08	0.32	28.264	No Match	Unknown	1.16E+08	0.17
60.711	No Match	Unknown	2.18E+08	0.499	28.309	No Match	Unknown	1.24E+08	0.182
60.742	No Match	Unknown	1.29E+08	0.296	28.38	No Match	Unknown	1.57E+08	0.232
60.764	No Match	Unknown	2.19E+08	0.502	28.456	No Match	Unknown	1.26E+08	0.185
60.809	No Match	Unknown	1.83E+08	0.419	28.531	No Match	Unknown	1.01E+08	0.148
60.841	No Match	Unknown	2.07E+08	0.473	28.557	No Match	Unknown	1.02E+08	0.151
60.894	No Match	Unknown	2.82E+08	0.646	28.639	3,9beta14,15-Diepoxypregn-16-en-20-one, 3,11n18-triacetox-	TIC	2.08E+08	0.306
60.932	No Match	Unknown	2.06E+08	0.471	28.676	3,9beta14,15-Diepoxypregn-16-en-20-one, 3,11n18-triacetox-	TIC	1.35E+08	0.199
60.976	No Match	Unknown	1.45E+08	0.332	28.777	2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-1-methyl-5-[4-[(trimethylsi	TIC	1.36E+08	0.201
61.012	No Match	Unknown	1.32E+08	0.302	28.86	No Match	Unknown	1.07E+08	0.157
61.028	No Match	Unknown	1.38E+08	0.316	28.915	No Match	Unknown	1.55E+08	0.229
61.067	No Match	Unknown	1.34E+08	0.306	29.029	No Match	Unknown	1.55E+08	0.228
61.121	No Match	Unknown	1.16E+08	0.265	29.117	No Match	Unknown	1.50E+08	0.221

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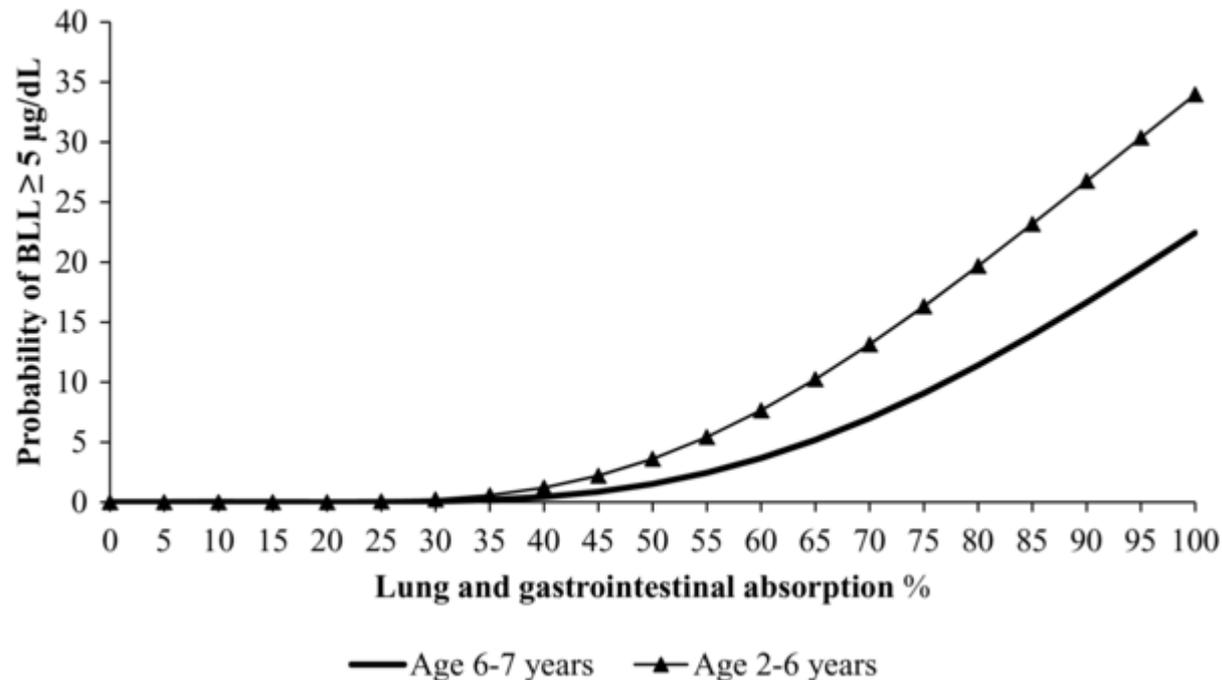
29.166	No Match	Unknown	1.01E+08	0.148					
29.248	No Match	Unknown	1.03E+08	0.152					
29.463	No Match	Unknown	1.12E+08	0.164					
29.542	No Match	Unknown	1.93E+08	0.284					
29.632	No Match	Unknown	1.64E+08	0.241					
29.668	No Match	Unknown	1.01E+08	0.149					
29.708	No Match	Unknown	1.28E+08	0.189					
29.764	No Match	Unknown	1.00E+08	0.148					
29.797	No Match	Unknown	1.05E+08	0.155					
29.834	No Match	Unknown	1.39E+08	0.205					
29.873	9-Hexadecenoic acid, eicosyl ester, (Z)-	TIC	1.44E+08	0.213					
29.965	2-Nonadecanone 2,4-dinitrophenylhydrazine	TIC	2.00E+08	0.295					
29.996	Oleic Acid	TIC	2.40E+08	0.354					
30.046	Oleic acid, eicosyl ester	TIC	1.57E+08	0.232					
30.083	Oleic acid, eicosyl ester	TIC	1.24E+08	0.182					
30.157	Octadecanoic acid, 1-[(tetradecyloxy)carbonyl]pentadecyl ester	TIC	1.70E+08	0.25					
30.178	2-Nonadecanone 2,4-dinitrophenylhydrazine	TIC	1.19E+08	0.176					
30.204	Rhodopin	TIC	1.13E+08	0.166					
30.234	No Match	Unknown	2.41E+08	0.355					
30.38	No Match	Unknown	1.65E+08	0.243					
30.453	No Match	Unknown	1.65E+08	0.243					
30.481	No Match	Unknown	1.05E+08	0.155					
30.509	No Match	Unknown	1.10E+08	0.162					
30.553	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandrost-8-en-17-yl)-	TIC	1.09E+08	0.161					
30.62	No Match	Unknown	1.15E+08	0.169					
30.662	No Match	Unknown	1.91E+08	0.281					
30.707	No Match	Unknown	1.50E+08	0.221					
30.74	No Match	Unknown	1.58E+08	0.232					
30.79	No Match	Unknown	1.91E+08	0.282					
30.832	No Match	Unknown	1.24E+08	0.183					
30.86	No Match	Unknown	1.29E+08	0.189					
30.899	9,10-Secocholesta-5,7,10(19)-triene-1,3,25-triol, (3π5Z,7E)-	TIC	2.11E+08	0.311					
30.938	Cholesta-8,24-dien-3-ol, 4-methyl-, (3π4π-	TIC	1.53E+08	0.226					
30.971	No Match	Unknown	1.12E+08	0.165					
30.998	No Match	Unknown	1.12E+08	0.166					
31.063	No Match	Unknown	1.75E+08	0.258					
31.101	No Match	Unknown	1.44E+08	0.213					
31.171	No Match	Unknown	1.06E+08	0.156					
31.232	No Match	Unknown	1.74E+08	0.256					
31.276	No Match	Unknown	1.08E+08	0.159					
31.341	No Match	Unknown	1.08E+08	0.159					
31.364	No Match	Unknown	1.05E+08	0.154					
31.435	No Match	Unknown	1.48E+08	0.218					
31.488	No Match	Unknown	2.30E+08	0.339					
31.522	No Match	Unknown	1.13E+08	0.167					
31.555	No Match	Unknown	1.46E+08	0.215					
31.63	No Match	Unknown	1.09E+08	0.16					
31.687	No Match	Unknown	1.49E+08	0.22					
31.8	Phthalic acid, 2,7-dimethyloct-7-en-5-yn-4-yl ethyl ester	TIC	5.76E+08	0.848					
31.832	Phthalic acid, 2,7-dimethyloct-7-en-5-yn-4-yl ethyl ester	TIC	1.60E+08	0.235					
31.858	Tetracosamethyl-cyclododecasiloxane	TIC	1.65E+08	0.242					
31.924	Phthalic acid, 6-ethyl-3-octyl butyl ester	TIC	1.33E+08	0.196					
31.958	Phthalic acid, isobutyl tridec-2-yn-1-yl ethyl ester	TIC	1.62E+08	0.239					
32.08	Phenol, 2-methyl-4-(1,1,3,3-tetramethylbutyl)-	TIC	1.50E+08	0.221					
32.167	Didodecyl phthalate	TIC	1.26E+08	0.185					
32.187	Didodecyl phthalate	TIC	1.28E+08	0.188					
32.251	cis-1-Chloro-9-octadecene	TIC	2.19E+08	0.322					
32.29	7-Heptadecene, 17-chloro-	TIC	2.38E+08	0.35					
32.321	Hexadecane, 1,1-bis(dodecyloxy)-	TIC	1.02E+08	0.151					
32.375	13-Octadecenal, (Z)-	TIC	4.05E+08	0.597					
32.471	Benzene, (1-methylnonadecyl)-	TIC	1.30E+08	0.192					
32.498	Benzene, (1-methyldodecyl)-	TIC	1.59E+08	0.235					
32.516	Benzene, (1-methyldodecyl)-	TIC	1.20E+08	0.177					
32.763	Benzene, (1-methylhexadecyl)-	TIC	2.00E+08	0.295					
32.957	Pentacosane, 13-phenyl-	TIC	1.86E+08	0.274					
33.029	Benzaldehyde, 3-(4-chlorophenoxyethyl)-	TIC	1.84E+08	0.27					
33.055	10,13-Octadecadiynoic acid, methyl ester	TIC	1.22E+08	0.179					
33.121	Pentadecanoic acid, 13-methyl-, methyl ester	TIC	1.52E+08	0.224					
					Cyclopropanebutanoic acid, 2-[[2-[[2-(2-pentylcyclopropyl)methyl]cyclopropyl]methyl]cyclopropyl]methyl-, methyl ester				
					33.142		TIC	1.60E+08	0.235
					33.179	Pentadecanoic acid, 13-methyl-, methyl ester	TIC	2.08E+08	0.308
					33.384	No Match	Unknown	1.49E+08	0.22
					33.424	Pentacosane, 13-phenyl-	TIC	1.62E+08	0.239
					33.568	5-(2-Bromo-3-phenyl-propionyl)-dihydrofuran-2-one	TIC	1.00E+08	0.147
					33.619	No Match	Unknown	1.10E+08	0.163
					33.708	No Match	Unknown	1.59E+08	0.234
					33.78	No Match	Unknown	1.37E+08	0.201
					33.819	No Match	Unknown	1.17E+08	0.172
					33.989	Benzene, (1-ethyl)dodecyl)-	TIC	1.94E+08	0.286
					34.03	Benzene, (1-ethyloctyl)-	TIC	1.54E+08	0.226
					34.069	Benzene, (1-ethyl)dodecyl)-	TIC	1.50E+08	0.221
					34.125	2-t-Butyl-6-[2-hydroxy-2-(2,4,6-trimethylphenyl)ethyl]-[1,3]dioxin-4-one	TIC	2.10E+08	0.309
					34.151	Benzaldehyde, 3-(2-nitrophenoxyethyl)-4-methoxy-	TIC	2.07E+08	0.305
					34.192	Phthalic acid, butyl hex-2-yn-4-yl ester	TIC	2.82E+08	0.416
					34.227	Ethaneperoxy acid, 1-cyano-1-[2-(2-phenyl-1,3-dioxolan-2-yl)ethyl]pentyl es	TIC	2.69E+08	0.396
					34.271	Phthalic acid, heptyl hex-2-yn-4-yl ester	TIC	2.36E+08	0.348
					34.303	Dibutyl phthalate	TIC	3.21E+08	0.473
					34.393	No Match	Unknown	1.01E+08	0.148
					34.485	Retinol	TIC	1.08E+08	0.159
					34.535	1,3-Dioxolane-4-methanol, 2-pentadecyl-,	TIC	2.55E+08	0.375
					34.565	1-Ethoxy-1-n-dodecyloxy-1-silacyclopentane	TIC	1.76E+08	0.259
					34.61	9,10-Secochola-5,7,10(19)-trien-24-al, 3-hydroxy-, (3π5Z,7E)-	TIC	1.31E+08	0.193
					34.653	Ethyl iso-allochololate	TIC	1.75E+08	0.258
					34.701	1-Heptatriacontanol	TIC	2.42E+08	0.357
					34.773	Propanoic acid, 2-(3-acetoxy-4,4,14-trimethylandrost-8-en-17-yl)-	TIC	2.92E+08	0.43
					34.971	Benzene, (1-methylnonyl)-	TIC	6.10E+08	0.898
					35.009	Benzene, (1-methylhexadecyl)-	TIC	3.88E+08	0.572
					35.048	Benzene, (1-methyltridecyl)-	TIC	4.67E+08	0.688
					35.12	Benzene, (1-methylnonadecyl)-	TIC	2.01E+08	0.295
					35.251	Hexadecanoic acid, octadecyl ester	TIC	9.95E+08	1.466
					35.342	No Match	Unknown	1.56E+08	0.229
					35.385	No Match	Unknown	1.87E+08	0.275
					35.448	Octadecanoic acid, eicosyl ester	TIC	1.10E+08	0.161
					35.475	No Match	Unknown	1.80E+08	0.266
					35.512	No Match	Unknown	1.08E+08	0.159
					35.587	No Match	Unknown	1.74E+08	0.257
					35.644	No Match	Unknown	1.30E+08	0.191
					35.684	No Match	Unknown	1.60E+08	0.236
					35.755	No Match	Unknown	1.57E+08	0.231
					35.842	No Match	Unknown	1.19E+08	0.175
					35.951	No Match	Unknown	1.89E+08	0.279
					36.042	No Match	Unknown	1.14E+08	0.168
					36.078	No Match	Unknown	1.44E+08	0.212
					36.141	No Match	Unknown	1.17E+08	0.173
					36.249	Benzoic acid, 2-(12-heptadecenyl)-6-methoxy-, methyl ester	TIC	1.34E+08	0.197
					36.286	No Match	Unknown	1.09E+08	0.16
					36.301	3-Isopropyl-5,5-dimethyl-1,2,3,4a,5,6,7,8,9,9a-decahydro-4-oxa-3-azafuorene	TIC	1.75E+08	0.258
					36.404	No Match	Unknown	1.24E+08	0.183
					36.478	No Match	Unknown	1.42E+08	0.209
					36.526	No Match	Unknown	1.32E+08	0.195
					36.576	No Match	Unknown	1.39E+08	0.205
					36.621	No Match	Unknown	1.16E+08	0.171
					36.676	Heptacosane, 1-chloro-	TIC	2.08E+08	0.308
					36.854	No Match	Unknown	1.15E+08	0.169
					36.902	No Match	Unknown	1.31E+08	0.193
					36.945	9-Octadecenoic acid (Z)-, 9-octadecenyl ester, (Z)-	TIC	4.30E+08	0.634
					37.13	No Match	Unknown	1.37E+08	0.201
					37.179	No Match	Unknown	1.12E+08	0.164
					37.226	1-Acetyl-3-(6-methyl-3-pyridyl)-pyrazoline	TIC	1.68E+08	0.247
					37.378	No Match	Unknown	1.68E+08	0.248
					37.416	No Match	Unknown	1.28E+08	0.188
					37.487	No Match	Unknown	1.84E+08	0.271
					37.526	No Match	Unknown	1.58E+08	0.233
					37.613	No Match	Unknown	1.17E+08	0.173
					37.655	No Match	Unknown	1.46E+08	0.214
					37.842	No Match	Unknown	1.78E+08	0.262

Sweat Extract

37.886	No Match	Unknown	1.25E+08	0.184
37.902	No Match	Unknown	1.56E+08	0.229
37.964	No Match	Unknown	1.18E+08	0.173
38.011	No Match	Unknown	2.02E+08	0.298
38.055	No Match	Unknown	1.75E+08	0.258
38.088	9-Desoxo-9-x-acetoxy-3-desoxy-7.8.12-tri-O-acetylingol-3-one	TIC	1.35E+08	0.199
38.171	Phorbol	TIC	2.27E+08	0.334
38.243	Dasycarpidan-1-methanol, acetate (ester)	TIC	1.96E+08	0.288
38.292	No Match	Unknown	1.45E+08	0.213
38.328	No Match	Unknown	1.47E+08	0.216
38.372	Ethyl iso-allocholate	TIC	1.11E+08	0.163
38.445	4H-Cyclopropa[5',6']benz[1',2':7,8]azuleno[5,6-b]oxiren-4-one, 8,8a-bis(acetyl	TIC	1.60E+08	0.235
38.481	Phorbol	TIC	1.55E+08	0.228
	10-Acetoxy-2-hydroxy-1,2,6a,6b,9,9,12a-heptamethyl-			
	1,3,4,5,6,6a,6b,7,8,8a,9,10,11,12,12a,12b,13,14b-octadecahydro-2H-picene-			
	4a-carboxylic acid, methyl ester			
38.558		TIC	1.64E+08	0.241
38.61	Hexadecanoic acid, octadecyl ester	TIC	2.09E+08	0.308
38.634	Heptacosane, 1-chloro-	TIC	1.31E+08	0.193
38.662	9-Hexadecenoic acid, eicosyl ester, (Z)-	TIC	1.64E+08	0.242
38.717	No Match	Unknown	2.39E+08	0.352
38.774	9-Desoxo-9-x-acetoxy-3-desoxy-7.8.12-tri-O-acetylingol-3-one	TIC	1.14E+08	0.167
38.823	No Match	Unknown	1.85E+08	0.273
38.903	No Match	Unknown	1.06E+08	0.156
38.943	No Match	Unknown	1.02E+08	0.15
39.016	No Match	Unknown	1.02E+08	0.15
39.099	No Match	Unknown	1.70E+08	0.25
39.142	No Match	Unknown	1.30E+08	0.192
39.178	No Match	Unknown	1.25E+08	0.183
39.259	No Match	Unknown	1.49E+08	0.22
39.301	No Match	Unknown	1.49E+08	0.22
39.343	No Match	Unknown	1.15E+08	0.17
39.423	No Match	Unknown	1.30E+08	0.191
39.482	No Match	Unknown	1.03E+08	0.152
39.602	No Match	Unknown	1.32E+08	0.195
39.726	No Match	Unknown	1.60E+08	0.235
39.743	No Match	Unknown	1.10E+08	0.162
39.778	No Match	Unknown	1.49E+08	0.22
39.836	No Match	Unknown	1.14E+08	0.168
39.939	No Match	Unknown	1.93E+08	0.284
39.952	No Match	Unknown	1.08E+08	0.159
40.717	No Match	Unknown	1.19E+08	0.175
40.733	Hexadecanoic acid, 1-(hydroxymethyl)-1,2	TIC	1.26E+08	0.185
41.887	Benzyl butyl phthalate	TIC	2.64E+08	0.389
42.961	9-Octadecenoic acid (Z)-, 2-hydroxy-1-(hydroxymethyl)ethyl ester	TIC	1.49E+08	0.219
18.206	1,2-Benzisothiazole	TIC	1.76E+08	1.404
21.877	3-(2-t-Butoxyethyl)decahydroisoquinoline	TIC	3.31E+08	2.646
22.832	Benzenethiol, 4-(1,1-dimethylethyl)-2-methyl-	TIC	1.88E+08	1.501

Lead Concerns

From: Bioaccessibility and Risk of Exposure to Metals and SVOCs in Artificial Turf Field Fill Materials and Fibers



Dermal route was not included in model, however, “Of all the exposure routes, dermal was generally found to be primary route of metal exposure”

Quotes from Dr. Philip Landrigan

- Qualifications: He is Dean of global health at New York's Mt. Sinai Hospital and a top expert on the effect of chemicals on children
- "Children go to playgrounds almost daily,... That sort of cumulative exposure results in a buildup in their body of these toxic chemicals, and can result in a buildup of cellular damage that's caused by these chemicals, that can then result in disease years or decades later."

More Quotes from Dr. Philip Landrigan

- "Little children should not be put in a situation where they're forced to be in intimate contact with carcinogenic chemicals,"
- Currently available studies on rubber infill are "inadequate." There is not one study that attempts to measure the effects that long-term, repeated exposure to tire shreds or ground rubber could have on young children.
[paraphrased from NBC News]

More Quotes from Dr. Philip Landrigan

- Behavioral traits unique to children, like putting things in their mouths, increase their risk of exposure. They breathe, eat and drink more relative to their body weight than adults. They also have many more years of life in which to develop disease triggered by early exposure to a carcinogen. [paraphrased from NBC News]
- "Children's cells and organs are rapidly growing and developing, developmental processes are very complex. They're easily disrupted."

More Quotes from Dr. Philip Landrigan

- "Butadiene is a known human carcinogen, styrene is a neuro-toxic chemical. It can cause injury to the brain and nerves. Truck tires also contain other toxic chemicals. All of these chemicals that are part and parcel of the tires get into the crumb..."

From Llompарт et al. (2013)

"Uses of recycled rubber tires, especially those targeting play areas and other facilities for children, should be a matter of regulatory concern."

Table 2
Concentration of the targets in the samples ($\mu\text{g g}^{-1}$). Statistic parameters.

Compound	Playgrounds samples				
	N out of 21	Average	Median	Minimum	Maximum
<i>PAHs</i>					
NAP	20	1.93	0.55	0.060	24.2
ACY	11	1.37	0.11	0.037	13.4
ACE	8	1.75	0.14	0.045	12.8
FLU	14	3.98	0.61	0.056	47.7
PHN	20	2.31	1.04	0.082	25.5
ANC	3	1.80	0.53	0.14	4.72
FLA	20	1.83	1.32	0.17	8.24
PYR	21	7.73	3.80	0.77	29.5
B[a]A	6	0.95	0.92	0.12	2.02
CHY	20	1.88	0.77	0.13	9.16
B[b]F	4	2.82	2.64	1.67	4.32
B[k]F	4	0.83	0.68	0.27	1.69
B[a]P	5	2.23	1.96	0.42	4.66
IND	6	1.37	1.40	0.31	2.77
D[ah]A	1	0.97	0.97	0.97	0.97
B[ghi]P	8	4.94	4.28	0.22	11.9
Total PAHs	21	23.4	8.42	1.25	178

Table 2
Concentration of the targets in the samples ($\mu\text{g g}^{-1}$). Statistic parameters.

Compound	Playgrounds samples				
	N out of 21	Average	Median	Minimum	Maximum
<i>Vulcanisation additives, antioxidants and plasticizers</i>					
BTZ	21	9.60	6.16	0.47	39.9
TBP	11	0.43	0.39	0.12	0.78
MBTZ	10	195	185	72	398
BHT	21	7.08	1.78	0.11	23.9
DMP					
DEP	13	0.41	0.37	0.082	1.13
DIBP	18	0.97	0.76	0.40	2.45
DBP	15	0.59	0.43	0.29	1.97
BBP					
DEHA					
DEHP	21	20.0	15.6	3.95	63.8
DINP	8	5415	4179	16.0	20615
DIDP	1	1284	1284	1284	1284

Fall Safety

- 2007 California Study found:
 - A 69% failure rate for rubberized playground surfaces using attenuation standards (n = 32).
 - A 100% pass rate for surfaces made of wood chips using attenuation standards (n = 5).

Changing Attitudes

- Kennedy Catholic High School in Burien, WA changed from using scrap-tire based crumb rubber to a scrap-shoe sole based crumb rubber made by Nike spending \$40,000 more
- Stadium in Ocean City, NJ halted due to concern over crumb rubber chemical safety
- A Democratic congressman from New Jersey, Frank Pallone, has called for a federal study on any health risks associated with crumb rubber on the thousands of sports fields across the country.

Bottom Lines

- There is too much uncertainty surrounding the chemical safety for the use of recycled tire scrap products in playgrounds
 - Are the toxicants harming our kids?
 - Could this affect some of them 20 or 30 years down the road?
 - What about the kids with genetic predispositions to cancer or other maladies?
 - Do we want our kids to be the experimental evidence?
- When is that next study coming out that will tell us definitively that this is safe?

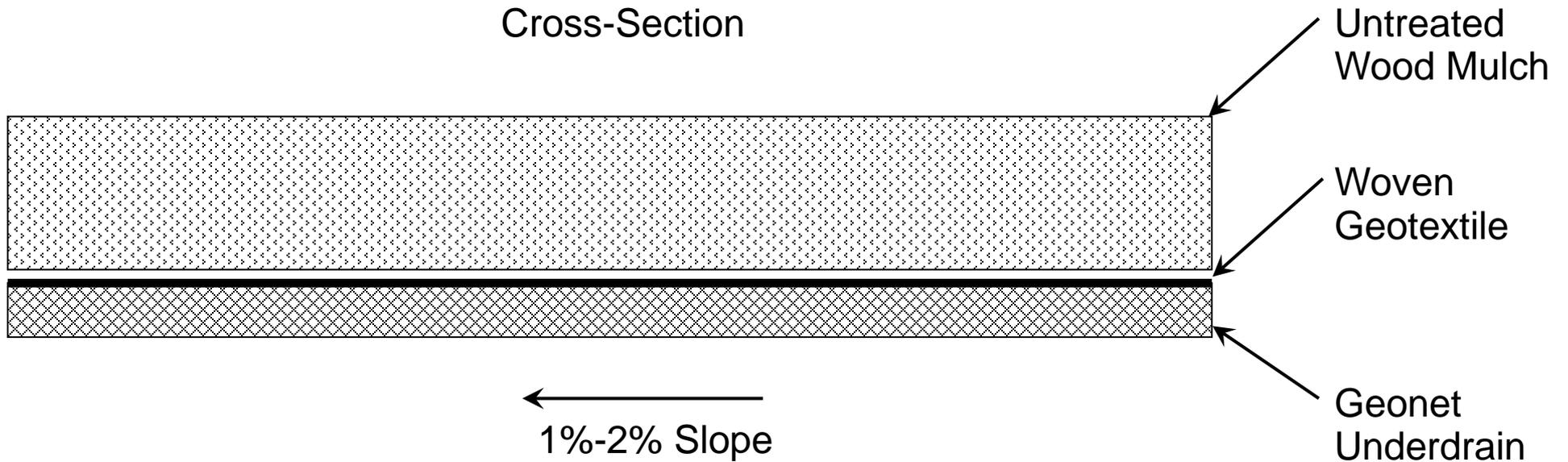
Here is what should be done...

- Use of the Precautionary Principle –

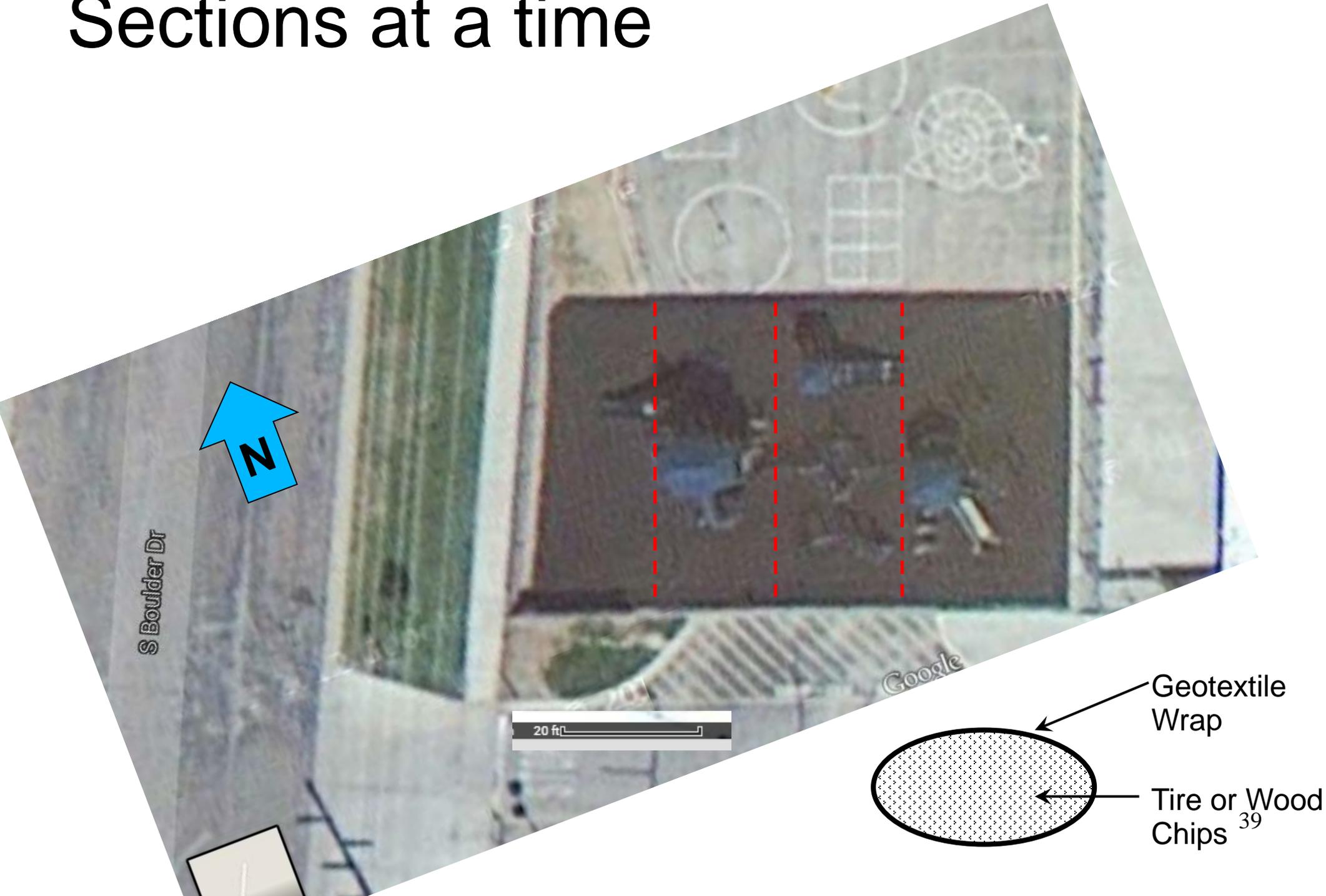
"When an activity raises threats of harm to human health or the environment, precautionary measures should be taken even if some cause and effect relationships are not fully established scientifically. In this context the proponent of an activity, rather than the public, should bear the burden of proof. The process of applying the precautionary principle must be open, informed and democratic and must include potentially affected parties. It must also involve an examination of the full range of alternatives, including no action." -

Wingspread Statement on the Precautionary Principle, Jan. 1998

Here is what could be done...



Sections at a time



Questions?

