

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 001

CAS No. 8006-61-9

Component	Concentration % (m/m)
i-butane	0,0017
n-butane	0,4062
2,2-dimethylpropane	0,106
i-pentane	25,2977
n-pentane	26,7902
c-pentene-2	0,0027
2,2-dimethylbutane	0,4487
cyclopentane	1,5619
2,3-dimethylbutane	0,9649
2-methylpentane	6,2252
4-methyl-t-pentene-2	0,007
3-methylpentane	3,2483
2-methylpentene-1	0,0138
n-hexane	8,2943
c-hexene-3	0,0123
2,2-dimethylpentane	0,122
methylcyclopentane	3,7034
2,4-dimethylpentane	0,2478
cyclic diolefin or triolefin	0,0295
benzene	2,3266
3,3-dimethylpentane	0,0614
cyclohexane	4,1576
2-methylhexane	1,1244
2,3-dimethylpentane	0,3686
1,1-dimethylcyclopentane	0,2454
3-methylhexane	1,1387
1c,3-dimethylcyclopentane	0,4138
1t,2-dimethylcyclopentane	0,3696
3-ethylpentane	0,0843
1t,3-dimethylcyclopentane	0,6348
n-heptane	2,441
3-methyl-c-hexene-2	0,0095
methylcyclohexane	3,3893
2,2-dimethylhexane	0,1356
ethylcyclopentane	0,1624
2,5-dimethylhexane	0,0735
2,4-dimethylhexane	0,0813
1c,2t,4-trimethylcyclopentane	0,098
3,3-dimethylhexane	0,0195
1t,2c,3-trimethylcyclopentane	0,0884
O39	0,0108
toluene	1,778
2,3-dimethylhexane	0,0721

2-methyl-3-ethylpentane	0,0159
2-methylheptane	0,3519
4-methylheptane	0,1014
3-methyl-3-ethylpentane	0,0101
3,4-dimethylhexane	0,0126
1c,3-dimethylcyclohexane	0,1917
3-methylheptane	0,3102
1t,4-dimethylcyclohexane	0,1145
1,1-dimethylcyclohexane	0,0399
2,2,5-trimethylhexane	0,0245
3c-ethylmethylcyclopentane	0,0215
3t-ethylmethylcyclopentane	0,0551
1,1-methylethylcyclopentane	0,0077
1t,2-dimethylcyclohexane	0,1083
n-octane	0,606
1c,2-dimethylcyclohexane	0,0145
2,3,5-trimethylhexane	0,0198
N4	0,1702
2,4-dimethylheptane	0,055
ethylcyclohexane	0,0434
3,5-dimethylheptane	0,0216
ethylbenzene	0,0815
I3	0,0191
1,3-dimethylbenzene	0,2193
1,4-dimethylbenzene	0,0898
N14	0,0126
N15	0,0248
1c,2t,3-trimethylcyclohexane	0,0355
1c,2t,4c-trimethylcyclohexane	0,0349
1,2-dimethylbenzene	0,0694
I8	0,0333
N20	0,0116
n-nonane	0,1229
i-propylbenzene	0,0072
N27	0,0101
i-propylcyclohexane	0,0075
2,6-dimethyloctane	0,0205
3,3-dimethyloctane	0,0132
3,6-dimethyloctane	0,012
1,3-methylethylbenzene	0,0144
1,4-methylethylbenzene	0,0053
1,3,5-trimethylbenzene	0,0102
I17	0,0057
2-methylnonane	0,0114
1,2,4-trimethylbenzene	0,0162
n-decane	0,0216
1,2,3-trimethylbenzene	0,0044
n-undecane	0,0088
1,2-methyl-n-butylbenzene	0,0044
n-dodecane	0,0084

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 1

Component	Concentration % (m/m)
i-butane	0,007
n-butane	0,646
t-butene-2	0,054
i-pentane	15,764
1,4-pentadiene	0,018
n-pentane	20,040
2,2-dimethylbutane	0,389
cyclopentane	1,450
2,3-dimethylbutane	0,787
2-methylpentane	5,933
2,3-dimethylbutene-1	0,030
3-methylpentane	3,137
2-methylpentene-1	0,014
n-hexane	9,177
c-hexene-3	0,012
2,2-dimethylpentane	0,158
methylcyclopentane	3,597
2,4-dimethylpentane	0,331
cyclic diolefin or triolefin	0,028
benzene	1,998
3,3-dimethylpentane	0,083
cyclohexane	4,553
2-methylhexane	1,677
2,3-dimethylpentane	0,539
1,1-dimethylcyclopentane	0,355
3-methylhexane	1,729
1c,3-dimethylcyclopentane	0,535
3-ethylpentane	0,490
1t,2-dimethylcyclopentane	0,130
1t,3-dimethylcyclopentane	0,888
n-heptane	4,248
3-methyl-c-hexene-2	0,013
methylcyclohexane	4,748

2,2-dimethylhexane	0,251
ethylcyclopentane	0,267
2,5-dimethylhexane	0,144
2,4-dimethylhexane	0,181
1c,2t,4-trimethylcyclopentane	0,194
3,3-dimethylhexane	0,045
1t,2c,3-trimethylcyclopentane	0,193
O39	0,038
O40	0,010
toluene	2,059
2,3-dimethylhexane	0,179
2-methyl-3-ethylpentane	0,042
2-methylheptane	0,889
4-methylheptane	0,278
3-methyl-3-ethylpentane	0,032
1c,2c,4-trimethylcyclopentane	0,021
1c,3-dimethylcyclohexane	0,516
3-methylheptane	0,626
3-ethylhexane	0,040
1c,2t,3-trimethylcyclopentane	0,234
1,1-dimethylcyclohexane	0,097
2,2,5-trimethylhexane	0,063
2,6-dimethylheptene-1	0,055
3t-ethylmethylcyclopentane	0,162
1,1-methylethylcyclopentane	0,025
1t,2-dimethylcyclohexane	0,271
n-octane	1,923
i-propylcyclopentane	0,023
N1	0,011
2,3,4-trimethylhexane	0,011
N2	0,015
N3	0,020
1c,2-dimethylcyclohexane	0,042
2,3,5-trimethylhexane	0,089
N4	0,567
2,4-dimethylheptane	0,197
ethylcyclohexane	0,173
2,5-dimethylheptane	0,026
3,5-dimethylheptane	0,103
2,6-dimethylheptane	0,042

1,1,3-trimethylcyclohexane	0,032
N7	0,014
N11	0,015
ethylbenzene	0,206
I3	0,079
1,3-dimethylbenzene	0,540
1,4-dimethylbenzene	0,157
3,4-dimethylheptane*	0,123
N14	0,058
I5	0,012
4-methyloctane	0,023
N15	0,143
1c,2t,3-trimethylcyclohexane	0,193
3-ethylheptane	0,013
3-methyloctane	0,020
1c,2t,4c-trimethylcyclohexane	0,030
1,1,2-trimethylcyclohexane	0,178
1,2-dimethylbenzene	0,235
I8	0,163
N20	0,030
I9	0,056
N21	0,008
N22	0,012
I10	0,015
n-nonane	0,836
3,7-dimethyloctene-1	0,018
N25	0,009
i-propylbenzene	0,027
N27	0,076
i-propylcyclohexane	0,051
I12	0,020
2,2-dimethyloctane	0,016
2,4-dimethyloctane	0,033
N29	0,012
2,6-dimethyloctane	0,155
2,5-dimethyloctane	0,035
n-butylcyclopentane	0,030
I13	0,035
I14	0,013
3,3-dimethyloctane	0,114

N31	0,022
n-propylbenzene	0,065
3-methyl-5-ethylheptane	0,054
N32	0,016
1,3-methylethylbenzene	0,080
1,4-methylethylbenzene	0,029
N33	0,032
2,3-dimethyloctane	0,008
1,3,5-trimethylbenzene	0,075
I15	0,019
N34	0,014
5-methylnonane	0,023
I17	0,075
2-methylnonane	0,115
3-ethyloctane	0,008
N35	0,027
3-methylnonane	0,067
I19	0,007
1,2,4-trimethylbenzene	0,121
i-butylcyclohexane	0,047
I22	0,009
I23	0,015
N37	0,008
I24	0,009
i-butylbenzene	0,013
I25	0,008
sec-butylbenzene	0,013
n-decane	0,308
1,2,3-trimethylbenzene	0,037
N39	0,014
1,4-methyl-i-propylbenzene	0,011
I29	0,005
2-3-dihydroindene	0,006
sec-butylcyclohexane	0,014
I30	0,025
1,2-methyl-i-propylbenzene	0,058
3-ethylnonane	0,007
I31	0,055
I32	0,020
1,3-diethylbenzene	0,007

1,3-methyl-n-propylbenzene	0,038
1,4-diethylbenzene	0,005
1,4-methyl-n-propylbenzene	0,009
n-butylbenzene	0,011
1,3-dimethyl-5-ethylbenzene	0,014
1,2-diethylbenzene	0,021
1,2-methyl-n-propylbenzene	0,011
I35	0,014
I37	0,016
1,4,dimethyl-2-ethylbenzene	0,020
A3	0,034
I39	0,014
I40	0,020
1,2-dimethyl-4-ethylbenzene	0,015
I41	0,009
1,2-dimethyl-3-ethylbenzene	0,008
1,2-ethyl-i-propylbenzene	0,009
n-undecane	0,133
1,2,4,5-tetramethylbenzene	0,010
1,2,3,5-tetramethylbenzene	0,012
4-methylindan	0,010
1,2-methyl-t-butylbenzene	0,009
2-methylindan	0,017
1,3-methyl-n-butylbenzene	0,005
1,4-di-i-propylbenzene	0,005
tetrahydronaphthalene	0,008
1,4-ethyl-t-butylbenzene	0,005
n-dodecane	0,060
1,3,5-triethylbenzene	0,011
1,4-methyl-n-pentylbenzene	0,005
2-methylnaphthalene	0,007
n-tridecane	0,049
Total Unknowns	0,304
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 004

CAS No. 92045-53-9

Component	Concentration % (m/m)
2,2-dimethylpentane	0,029
methylcyclopentane	0,021
2,4-dimethylpentane	0,132
2,2,3-trimethylbutane	0,009
3,3-dimethylpentane	0,155
cyclohexane	1,432
2-methylhexane	10,226
2,3-dimethylpentane	4,159
1,1-dimethylcyclopentane	0,831
3-methylhexane	14,576
1c,3-dimethylcyclopentane	2,968
1t,3-dimethylcyclopentane	2,730
3-ethylpentane	1,398
1t,2-dimethylcyclopentane	5,528
2,2,4-trimethylpentane	0,057
n-heptane	35,180
3-methyl-c-hexene-2	0,053
methylcyclohexane	18,154
1,1,3-trimethylcyclopentane	0,405
ethylcyclopentane	1,422
2,5-dimethylhexane	0,118
2,2,3-trimethylpentane	0,130
1c,2t,4-trimethylcyclopentane	0,132
3,3-dimethylhexane	0,010
1t,2c,3-trimethylcyclopentane	0,113
2,3,3-trimethylpentane	0,006
2,3-dimethylhexane	0,013
4-methylheptane	0,015
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 2

Component	Concentration % (m/m)
ethylbenzene	0,0026
1,3-dimethylbenzene	0,0079
1,4-dimethylbenzene	0,004
1,2-dimethylbenzene	0,0064
i-propylbenzene	0,8183
n-propylbenzene	5,7905
1,3-methylethylbenzene	15,217
1,4-methylethylbenzene	7,2358
2,3-dimethyloctane	0,0265
1,3,5-trimethylbenzene	6,5652
I16	0,0288
5-methylnonane	0,0173
I17	0,0261
1,2-methylethylbenzene	6,7577
2-methylnonane	0,0807
3-methylnonane	0,0405
t-butylbenzene	0,0204
1,2,4-trimethylbenzene	27,0758
I22	0,0606
I23	0,0245
i-butylbenzene	0,2095
sec-butylbenzene	0,2244
n-decane	0,0446
1,2,3-trimethylbenzene	6,3976
1,3-methyl-i-propylbenzene	0,5998
1,4-methyl-i-propylbenzene	0,1535
2-3-dihydroindene	2,1715
1,2-methyl-i-propylbenzene	0,1852
1,3-diethylbenzene	0,5212
1,4-diethylbenzene	1,6335
1,4-methyl-n-propylbenzene	0,9054
n-butylbenzene	0,3282
1,3-dimethyl-5-ethylbenzene	1,8054
1,2-diethylbenzene	0,114
1,2-methyl-n-propylbenzene	0,6088
1,4,dimethyl-2-ethylbenzene	1,3385
1,3-dimethyl-4-ethylbenzene	1,2605
I40	0,0171
1,2-dimethyl-4-ethylbenzene	2,374
1,3-dimethyl-2-ethylbenzene	0,1635
I42	0,0097
1,2-dimethyl-3-ethylbenzene	0,0298
1,2-ethyl-i-propylbenzene	0,5533
n-undecane	0,0129

1,4-ethyl-i-propylbenzene	0,0113
1,2,4,5-tetramethylbenzene	1,6133
1,2,3,5-tetramethylbenzene	2,3467
1,2-methyl-t-butylbenzene	0,0056
5-methylindan	0,3729
4-methylindan	0,0481
1,2-ethyl-n-propylbenzene	0,0083
2-methylindan	0,0986
1,3-methyl-n-butylbenzene	0,0107
1,3-di-i-propylbenzene	0,4163
s-pentylbenzene	0,8201
n-pentylbenzene	0,0266
1,2-di-i-propylbenzene	0,0444
1,4-di-i-propylbenzene	0,0389
tetrahydronaphthalene	0,0457
1-t-butyl-3,5-dimethylbenzene	0,0768
naphthalene	0,814
I46	0,0278
I48	0,023
1,3-di-n-propylbenzene	0,0996
A5	0,0638
A6	0,0577
1,3,5-triethylbenzene	0,0088
1,2,4-triethylbenzene	0,0275
1,4-methyl-n-pentylbenzene	0,0399
n-hexylbenzene	0,0246
1,2,3,4,5-pentamethylbenzene	0,0913
2-methylnaphthalene	0,29
1-methylnaphthalene	0,1602

Total Unknowns	0,819
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 3

Component	Concentration % (m/m)
i-pentane	0,0117
n-pentane	0,0253
cyclopentadiene	0,0056
cyclopentane	0,0622
2,3-dimethylbutane	0,1324
2-methylpentane	0,8883
3-methylpentane	0,7009
hexene-1	0,0041
n-hexane	1,2205
2,2-dimethylpentane	0,0346
methylcyclopentane	2,6049
2,4-dimethylpentane	0,2788
2,2,3-trimethylbutane	0,007
benzene	0,5812
2-methyl-c-hexene-3	0,0339
cyclohexane	1,6355
2-methylhexane	2,3
2,3-dimethylpentane	0,5788
1,1-dimethylcyclopentane	0,198
3-methylhexane	2,0736
1c,3-dimethylcyclopentane	1,668
1t,3-dimethylcyclopentane	1,2688
3-ethylpentane	0,1533
1t,2-dimethylcyclopentane	1,1789
n-heptane	2,1755
3-methyl-c-hexene-2	0,011
1c,2-dimethylcyclopentane	0,8233
methylcyclohexane	6,7113
2,2-dimethylhexane	0,5359
ethylcyclopentane	1,7913
2,5-dimethylhexane	0,578
2,2,3-trimethylpentane	0,5691
1c,2t,4-trimethylcyclopentane	0,9538
3,3-dimethylhexane	0,0556
1t,2c,3-trimethylcyclopentane	0,4359
O39	0,0211
O40	0,0043
toluene	1,9523
1,1,2-trimethylcyclopentane	0,4906
O44	0,0517
2-methylheptane	2,1012
1t,4-dimethylcyclohexane	0,6019
4-methylheptane	0,0702

3-methyl-3-ethylpentane	0,0758
1c,3-dimethylcyclohexane	0,527
3-methylheptane	1,6358
1c,2t,3-trimethylcyclopentane	2,3066
3-ethylhexane	0,5336
1c,2c,4-trimethylcyclopentane	1,0064
1,1-dimethylcyclohexane	0,1847
2,2,5-trimethylhexane	0,0338
3c-ethylmethylcyclopentane	1,3477
3t-ethylmethylcyclopentane	1,0319
2t-ethylmethylcyclopentane	0,7289
1,1-methylethylcyclopentane	0,1123
1t,2-dimethylcyclohexane	0,7373
1t,3-dimethylcyclohexane	0,1418
1c,4-dimethylcyclohexane	1,8694
n-octane	2,3539
i-propylcyclopentane	0,434
N1	0,0398
2,2,3,4-tetramethylpentane	0,0369
2,3,4-trimethylhexane	0,0622
N2	0,4681
N3	0,0431
1c,2-dimethylcyclohexane	0,6569
2,3,5-trimethylhexane	0,472
1,1,4-trimethylcyclohexane	0,0849
N4	2,6791
2,2,3-trimethylhexane	0,0784
2,4-dimethylheptane	0,4991
4,4-dimethylheptane	0,263
ethylcyclohexane	0,3489
2,5-dimethylheptane	0,2069
3,5-dimethylheptane	0,8428
2,6-dimethylheptane	0,42
1,1,3-trimethylcyclohexane	0,4978
N7	0,3377
N11	0,0758
1c,2t,4t-trimethylcyclohexane	0,902
ethylbenzene	0,8129
I4	0,1442
N12	0,4095
1,3-dimethylbenzene	0,752
1,4-dimethylbenzene	0,2961
3,4-dimethylheptane*	0,3225
N14	0,1793
I5	0,074
4-ethylheptane	0,3216
N15	0,7919
1c,2t,3-trimethylcyclohexane	1,3456
3-ethylheptane	0,356
1c,2t,4c-trimethylcyclohexane	0,6305
3-methyloctane	1,3576
1,1,2-trimethylcyclohexane	0,4966

1,2-dimethylbenzene	0,2241
N18	0,9672
N19	1,9284
I8	0,4225
N20	0,591
I9	0,0749
i-butylcyclopentane	0,0915
N21	0,5488
N23/c-nonene-2	0,071
N22	0,2162
I10	0,102
n-nonane	1,6484
1,1-methylethylcyclohexane	0,9555
N25	0,3735
i-propylbenzene	0,0484
N26	0,05
N27	0,4908
i-propylcyclohexane	0,3622
I12	0,2926
2,2-dimethyloctane	0,0944
2,4-dimethyloctane	0,3201
N28	0,9943
N29	0,5386
n-butylcyclopentane	0,463
N30	0,5772
3,3-dimethyloctane	0,225
N31	0,5345
n-propylbenzene	0,2228
3,6-dimethyloctane	0,4015
3-methyl-5-ethylheptane	0,5611
N32	0,3099
1,3-methylethylbenzene	0,3807
1,4-methylethylbenzene	0,5251
N33	0,2417
2,3-dimethyloctane	0,0821
1,3,5-trimethylbenzene	0,382
I16	0,2336
N34	0,3806
5-methylnonane	0,2778
I17	0,5759
N35	1,099
3-methylnonane	0,1567
N36	0,8693
I18	0,1119
t-butylbenzene	0,0163
I20	0,0677
i-butylcyclohexane	1,1979
I21	0,4644
I22	0,3053
I23	0,1501
N37	0,3029
1t-methyl-2-n-propylcyclohexan	0,1232

I24	0,0969
i-butylbenzene	0,071
I25	0,3961
n-decane	0,6627
I26	0,1666
N38	0,0774
1,2,3-trimethylbenzene	0,0975
1,3-methyl-i-propylbenzene	0,1166
N39	0,069
1,4-methyl-i-propylbenzene	0,0273
I27	0,0632
I28	0,0702
I29	0,0684
sec-butylcyclohexane	0,1704
I30	0,1967
3-ethylnonane	0,1628
1,2-methyl-i-propylbenzene	0,0539
N40	0,3022
I31	0,0209
I32	0,254
1,3-diethylbenzene	0,1271
I33	0,2646
1,4-methyl-n-propylbenzene	0,02
n-butylbenzene	0,0499
1,2-diethylbenzene	0,0783
I34	0,0675
t-decahydronaphthalene	0,0627
N41	0,12
1,2-methyl-n-propylbenzene	0,1103
I35	0,0411
I36	0,0092
I37	0,0678
I38	0,0809
1,4,dimethyl-2-ethylbenzene	0,0192
I39	0,092
I40	0,0546
I41	0,0612
I42	0,0326
I43	0,0155
1,2-dimethyl-3-ethylbenzene	0,0164
1,2-ethyl-i-propylbenzene	0,018
n-undecane	0,0533
1,2,4,5-tetramethylbenzene	0,0074
1,2-methyl-n-butylbenzene	0,0061
1,2,3,5-tetramethylbenzene	0,0154
I43	0,0124

Total Unknowns	2,760
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 013

CAS No. 101316-66-9

Component	Concentration % (m/m)
2,3-dimethylbutane	0,0142
2-methylpentane	0,0561
3-methylpentane	0,104
n-hexane	0,3831
2,2-dimethylpentane	0,7937
methylcyclopentane	0,2008
2,4-dimethylpentane	1,1844
2,2,3-trimethylbutane	0,1968
3,3-dimethylpentane	2,32
cyclohexane	0,0922
2-methylhexane	21,5557
2,3-dimethylpentane	7,9564
1,1-dimethylcyclopentane	0,2086
3-methylhexane	28,7146
1c,3-dimethylcyclopentane	0,5319
1t,3-dimethylcyclopentane	0,4905
3-ethylpentane	2,8718
1t,2-dimethylcyclopentane	0,6644
n-heptane	22,6472
1c,2-dimethylcyclopentane	0,1842
methylcyclohexane	1,4891
2,2-dimethylhexane	1,1324
ethylcyclopentane	0,2524
2,4-dimethylhexane	1,111
2,2,3-trimethylpentane	1,8166
1c,2t,4-trimethylcyclopentane	0,1147
3,3-dimethylhexane	0,438
1t,2c,3-trimethylcyclopentane	0,0539
2,3,4-trimethylpentane	0,0442
2,3,3-trimethylpentane	0,0267
2,3-dimethylhexane	0,364
2-methyl-3-ethylpentane	0,0722
2-methylheptane	0,6206
4-methylheptane	0,3177
3,4-dimethylhexane	0,0666
3-methyl-3-ethylpentane	0,0647
1c,2c,4-trimethylcyclopentane	0,0144
3-methylheptane	0,5702
3-ethylhexane	0,1717
n-octane	0,0881
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 014

CAS No. 101316-67-0

Component	Concentration % (m/m)
i-butane	0,005
i-pentane	0,065
n-pentane	0,415
2,2-dimethylbutane	1,763
cyclopentane	0,311
2,3-dimethylbutane	4,233
2-methylpentane	21,941
O8	0,011
3-methylpentane	18,932
2-methylpentene-1	0,033
n-hexane	32,913
c-hexene-3	0,021
2,2-dimethylpentane	2,146
methylcyclopentane	7,486
2,4-dimethylpentane	2,130
2,2,3-trimethylbutane	0,266
3,3-dimethylpentane	0,492
cyclohexane	3,027
2-methylhexane	1,269
2,3-dimethylpentane	0,590
1,1-dimethylcyclopentane	0,051
3-methylhexane	1,020
1c,3-dimethylcyclopentane	0,043
1t,3-dimethylcyclopentane	0,031
3-ethylpentane	0,067
1t,2-dimethylcyclopentane	0,043
2,2,4-trimethylpentane	0,015
n-heptane	0,266
1c,2-dimethylcyclopentane	0,175
2,2-dimethylhexane	0,041
ethylcyclopentane	0,013
2,5-dimethylhexane	0,042
2,4-dimethylhexane	0,067

1c,2t,4-trimethylcyclopentane	0,006
3,3-dimethylhexane	0,016
2,3-dimethylhexane	0,008
2-methylheptane	0,011
3-methylheptane	0,008
3-ethylhexane	0,009
n-octane	0,013
n-nonane	0,008
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 4

Component	Concentration % (m/m)
i-pentane	0,0044
pentene-1	0,0052
2-methylbutene-1	0,0024
n-pentane	0,0613
t-pentene-2	0,0081
3,3-dimethylbutene-1	0,0058
2-methylbutene-2	0,0183
2,2-dimethylbutane	0,0063
O6	0,0023
cyclopentene	0,0307
4-methylpentene-1	0,2403
3-methylpentene-1	0,1093
cyclopentane	0,1776
2,3-dimethylbutane	0,0903
4-methyl-c-pentene-2	0,0479
2,3-dimethylbutene-1	0,0273
2-methylpentane	1,4774
4-methyl-t-pentene-2	0,1468
2-methyl-1,4-pentadiene	0,0035
3-methylpentane	0,6997
2-methylpentene-1	0,3805
hexene-1	1,9339
1c/t,4-hexadiene	0,0204
n-hexane	5,8429
t-hexene-3	0,1986
c-hexene-3	0,061
t-hexene-2	0,5351
2-methylpentene-2	0,5575
4-methylcyclopentene	0,257
3-methyl-c-pentene-2	0,1715
3-methylcyclopentene	0,1187
O13	0,0058
c-hexene-2	0,289
O14	0,0052
3,3-dimethylpentene-1	0,2891
3-methyl-t-pentene-2	0,0169
4,4-dimethyl-t-pentene-2	0,0178
methylcyclopentane	1,8319
2,4-dimethylpentane	0,0548
2,3,3-trimethylbutene-1	0,0706
cyclic diolefin or triolefin	0,0292
2,2,3-trimethylbutane	0,0418
cyclic diolefin or triolefin	0,03
O17	0,0311

3,4-dimethylpentene-1	0,0445
4,4-dimethyl-c-pentene-2	0,0238
2,4-dimethylpentene-1	0,0405
diolefin	0,1066
1-methylcyclopentene	1,132
benzene	0,2827
3-ethylpentene-1	0,1381
3-methylhexene-1	0,0154
2-methyl-c-hexene-3	0,0643
3,3-dimethylpentane	0,0486
5-methylhexene-1	0,157
cyclohexane	0,6691
2-methyl-t-hexene-3	0,0573
diolefin (hexadiene)	0,0217
2-ethyl-3-methylbutene-1	0,0634
4-methylhexene-1	0,4651
4-methyl-t/c-hexene-2	0,1658
2-methylhexane	0,9447
2,3-dimethylpentane	0,349
5-methyl-t-hexene-2	0,0696
cyclohexene	0,3748
3-methylhexane	1,187
1,6-heptadiene	0,0091
3,4-dimethyl-c-pentene-2	0,0577
1c,3-dimethylcyclopentane	0,3741
1t,3-dimethylcyclopentane	0,3122
3-ethylpentane	0,3105
1t,2-dimethylcyclopentane	0,5391
heptene-1	2,1242
O25	0,0141
3-methyl-c-hexene-3	0,0984
t-heptene-3	0,7307
n-heptane	6,9248
2-methyl-2-hexene	0,1788
3-methyl-c-hexene-2	0,203
3-methyl-t-hexene-3	0,1409
t-heptene-2	0,5271
3-ethylpentene-2	0,1175
c-heptene-2	0,5522
2,3-dimethylpentene-2	0,3465
3-ethylcyclopentene	0,1041
O29	0,1087
1c,2-dimethylcyclopentane	0,2486
methylcyclohexane	1,4882
1,1,3-trimethylcyclopentane	0,0517
O32	0,0044
O33	0,0161
O34	0,0043
O35	0,0161
O36	0,0059
ethylcyclopentane	0,8357
2,5-dimethylhexane	0,0739

2,2,3-trimethylpentane	0,2739
2,4-dimethylhexane	0,2691
O37	0,1545
1c,2t,4-trimethylcyclopentane	0,1755
O38	0,0344
1t,2c,3-trimethylcyclopentane	0,0321
O39	0,1227
2,3,4-trimethylpentane	0,1102
I1	0,0699
O40	0,8913
2,3,3-trimethylpentane	0,4756
toluene	1,6026
O41	0,1113
O42	0,1132
O43	0,0768
2,3-dimethylhexane	0,1303
2-methyl-3-ethylpentane	0,1066
1,1,2-trimethylcyclopentane	0,124
O44	0,6471
O46	2,1524
2-methylheptane	0,4867
3,4-dimethylhexane	0,0438
1c,2c,4-trimethylcyclopentane	0,3881
3-methylheptane	0,6076
3-ethylhexane	0,6221
1t,4-dimethylcyclohexane	0,1423
1,3-octadiene	0,1377
O48	0,0407
1,1-dimethylcyclohexane	0,0973
2,2,5-trimethylhexane	0,5358
3c-ethylmethylcyclopentane	0,3483
2,6-dimethylheptene-1	0,3054
2t-ethylmethylcyclopentane	2,0934
*octene-1	0,0343
1,1-methylethylcyclopentane	0,0448
2,2,4-trimethylhexane	0,07
t-octene-4	0,4482
3,5,5-trimethylhexene-1	0,1356
t-octene-3	0,4639
n-octane	6,3678
3,3-dimethylheptene-1	0,0271
t-octene-2	0,5173
O50	0,6546
i-propylcyclopentane	0,2034
O52	0,1255
c-octene-2 (O53)	0,2299
N1	0,2073
2,2,3,4-tetramethylpentane	0,0818
2,3,4-trimethylhexane	0,2134
N2	0,2312
N3	0,2198
2,3,3-trimethylhexene-1	0,1295

1c,2-dimethylcyclohexane	0,1264
2,3,5-trimethylhexane	0,0815
2,2-dimethylheptane	0,0257
N4	1,1328
2,2,3-trimethylhexane	0,0396
2,4-dimethylheptane	0,6273
ethylcyclohexane	0,8381
*1c,3c,5-trimethylcyclohexane	0,0605
2,5-dimethylheptane	0,0488
3,3-dimethylheptane	0,2326
3,5-dimethylheptane	0,1225
1,1,3-trimethylcyclohexane	0,0893
2,4-dimethylheptene-1	0,2575
N8	0,0891
N10	0,0404
N11	0,0725
ethylbenzene	0,9051
2-methyloctene-1	0,6165
I4	0,0357
2-methyloctene-2	0,0306
N12	0,0894
N13	0,2151
1,3-dimethylbenzene	1,6803
1,4-dimethylbenzene	0,5413
3,4-dimethylheptane*	0,3308
N14	0,1565
I5	0,0531
4-ethylheptane	0,1876
4-methyloctane	0,4221
2-methyloctane	0,1654
3-ethylheptane	0,416
3-methyloctane	0,8056
1c,2t,4c-trimethylcyclohexane	1,0377
1,1,2-trimethylcyclohexane	0,1809
1,2-dimethylbenzene	0,9833
I6	0,1367
nonene-1	0,6356
I8	0,129
N20	0,3038
I9	0,1369
i-butylcyclopentane	0,1673
N21	0,0995
t-7-methyloctene-3	1,5746
N22	0,2953
t-nonene-3	0,2855
I10	0,2785
n-nonane	5,0354
3,7-dimethyloctene-1	0,3782
N25	0,0776
t-2,2,5,5-tetramethylhexene-3	0,1936
i-propylbenzene	0,0157
N26	0,1818

N27	0,0912
c-nonene-3	0,4913
i-propylcyclohexane	0,1595
I12	0,1554
2,2-dimethyloctane	0,0801
2,4-dimethyloctane	0,2145
N29	0,0928
2,6-dimethyloctane	0,4554
2,5-dimethyloctane	0,0808
n-butylcyclopentane	0,3698
N30	0,1001
I14	0,0836
3,3-dimethyloctane	0,6269
N31	0,0394
n-propylbenzene	0,2004
3,6-dimethyloctane	0,3252
N32	0,2854
3-methyl-5-ethylheptane	0,0743
1,3-methylethylbenzene	0,628
1,4-methylethylbenzene	0,2727
N33	0,1966
1,3,5-trimethylbenzene	0,3382
2,3-dimethyloctane	0,156
I15	0,0344
5-methylnonane	0,2171
I17	0,3893
1,2-methylethylbenzene	0,2126
2-methylnonane	0,3807
3-ethyloctane	0,1917
N35	0,0281
3-methylnonane	0,2953
3-ethyl-2-methylheptene-2	0,0404
I18	0,0449
I19	0,0538
1,2,4-trimethylbenzene	0,4573
I20	0,1521
i-butylcyclohexane	0,132
I21	0,0666
I23	0,0273
decene-1	0,4959
2,3-dimethyloctene-2	0,0955
I24	0,054
i-butylbenzene	0,0665
I25	0,0608
sec-butylbenzene	0,0336
n-decane	1,1372
N38	0,1785
1,2,3-trimethylbenzene	0,0235
1,3-methyl-i-propylbenzene	0,138
N39	0,0525
I27	0,0557
1,4-methyl-i-propylbenzene	0,036

I28	0,055
2-3-dihydroindene	0,0463
sec-butylcyclohexane	0,1124
I30	0,027
1,2-methyl-i-propylbenzene	0,1004
N40	0,0471
I31	0,0301
I32	0,0888
1,3-diethylbenzene	0,0077
1,3-methyl-n-propylbenzene	0,0236
1,4-diethylbenzene	0,0548
1,4-methyl-n-propylbenzene	0,0416
n-butylbenzene	0,028
1,2-diethylbenzene	0,0257
t-decahydronaphthalene	0,0162
N41	0,0157
1,2-methyl-n-propylbenzene	0,02
I35	0,0176
I36	0,0211
I37	0,0159
I38	0,0158
1,4-dimethyl-2-ethylbenzene	0,027
1,3-dimethyl-4-ethylbenzene	0,021
I40	0,0108
1,2-dimethyl-4-ethylbenzene	0,0312
I43	0,0064
1,4-methyl-t-butylbenzene	0,0211
1,2-dimethyl-3-ethylbenzene	0,0126
n-undecane	0,0537
5-methylindan	0,0071
2-methylindan	0,0087
1,3-methyl-n-butylbenzene	0,0053
naphthalene	0,0082
n-dodecane	0,0041

Total Unknowns	2,818
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 019

CAS No. 64741-69-1

Component	Concentration % (m/m)
n-pentane	0,0077
cyclopentadiene	0,0045
cyclopentane	0,0413
2,3-dimethylbutane	0,2937
2-methylpentane	2,1017
2,3-dimethylbutene-1	0,0163
3-methylpentane	1,8983
hexene-1	0,0089
2-methylpentene-1	0,0063
O11	0,0044
n-hexane	2,7567
t-hexene-3	0,0104
c-hexene-3	0,0049
t-hexene-2	0,0177
2-methylpentene-2	0,0139
4-methylcyclopentene	0,0046
3-methyl-c-pentene-2	0,009
c-hexene-2	0,0071
3,3-dimethylpentene-1	0,0151
2,2-dimethylpentane	0,0554
methylcyclopentane	4,7771
2,4-dimethylpentane	0,6295
2,2,3-trimethylbutane	0,0332
1-methylcyclopentene	0,0292
benzene	0,9271
3-ethylpentene-1	0,0042
3-methylhexene-1	0,0605
5-methylhexene-1	0,0058
cyclohexane	1,6476
2-methyl-t-hexene-3	0,0077
2-ethyl-3-methylbutene-1	0,0063
4-methylhexene-1	0,0081
2-methylhexane	4,5545
2,3-dimethylpentane	1,2731
1,1-dimethylcyclopentane	0,2726
cyclohexene	0,01
3-methylhexane	4,5867
3,4-dimethyl-c-pentene-2	0,0106
1c,3-dimethylcyclopentane	2,5064
1t,3-dimethylcyclopentane	2,2287
3-ethylpentane	0,3503
1t,2-dimethylcyclopentane	1,9597
heptene-1	0,0015
2,2,4-trimethylpentane	0,011

2-ethylpentene-1	0,0142
3-methyl-c-hexene-3	0,0087
t-heptene-3	0,0326
n-heptane	3,6317
3-methyl-c-hexene-2	0,053
3-methyl-t-hexene-3	0,0181
t-heptene-2	0,0176
3-ethylpentene-2	0,0112
c-heptene-2	0,0335
2,3-dimethylpentene-2	0,014
1c,2-dimethylcyclopentane	1,0233
methylcyclohexane	6,4137
2,2-dimethylhexane	0,7455
ethylcyclopentane	2,2518
2,5-dimethylhexane	0,7583
2,2,3-trimethylpentane	0,9383
1c,2t,4-trimethylcyclopentane	1,4189
3,3-dimethylhexane	0,0734
1t,2c,3-trimethylcyclopentane	0,6754
O39	0,0346
2,3,4-trimethylpentane	0,0438
I1	0,0109
toluene	4,5269
1,1,2-trimethylcyclopentane	0,7665
2,3-dimethylhexane	0,1268
O45	0,0218
2-methylheptane	2,986
4-methylheptane	1,0627
3-methyl-3-ethylpentane	0,1098
3,4-dimethylhexane	0,1282
1c,2c,4-trimethylcyclopentane	0,5474
3-methylheptane	2,775
1c,2t,3-trimethylcyclopentane	2,2874
3-ethylhexane	0,6465
1t,4-dimethylcyclohexane	0,9583
1,1-dimethylcyclohexane	0,1544
2,2,5-trimethylhexane	0,0284
3c-ethylmethylcyclopentane	1,3506
3t-ethylmethylcyclopentane	1,1877
2t-ethylmethylcyclopentane	0,8217
1,1-methylethylcyclopentane	0,1167
1t,2-dimethylcyclohexane	0,6913
1c,2c,3-trimethylcyclopentane	0,019
1t,3-dimethylcyclohexane	0,1256
n-octane	4,2738
I2	0,0374
i-propylcyclopentane	0,4481
N1	0,0374
2,2,3,4-tetramethylpentane	0,0502
2,3,4-trimethylhexane	0,0493
N2	0,3917
N3	0,0477

1c,2-dimethylcyclohexane	0,4395
1,1,4-trimethylcyclohexane	0,5003
2,2-dimethylheptane	0,0941
N4	1,9299
2,2,3-trimethylhexane	0,094
2,4-dimethylheptane	0,4321
4,4-dimethylheptane	0,2074
ethylcyclohexane	0,3066
2,5-dimethylheptane	0,1609
3,5-dimethylheptane	0,8917
2,6-dimethylheptane	0,1336
1,1,3-trimethylcyclohexane	0,46
N7	0,306
N10	0,0767
ethylbenzene	1,4495
N11	0,6703
I4	0,1004
N12	0,205
1,3-dimethylbenzene	1,8837
1,4-dimethylbenzene	0,9626
N14	0,3258
I5	0,1884
4-ethylheptane	0,0868
4-methyloctane	0,3036
2-methyloctane	0,9399
N15	1,1966
1c,2t,3-trimethylcyclohexane	0,1538
3-ethylheptane	0,1623
3-methyloctane	0,0538
1c,2t,4c-trimethylcyclohexane	0,4457
1,1,2-trimethylcyclohexane	1,3037
I6	0,2271
N18	0,1475
1,2-dimethylbenzene	1,2101
I7	0,0235
nonene-1	0,0246
N19	0,7859
I8	0,2125
N20	0,2179
I9	0,0331
i-butylcyclopentane	0,0508
N21	0,1401
N23/c-nonene-2	0,0237
N22	0,0558
t-nonene-3	0,0236
I10	0,037
n-nonane	0,6811
1,1-methylethylcyclohexane	0,1905
3,7-dimethyloctene-1	0,0211
N25	0,0677
N26	0,011
N27	0,0972

c-nonene-3	0,029
i-propylcyclohexane	0,0415
I12	0,0284
2,2-dimethyloctane	0,0216
2,4-dimethyloctane	0,0269
N28	0,0158
2,6-dimethyloctane	0,0544
N29	0,0285
n-butylcyclopentane	0,0275
I14	0,0195
N31	0,0155
3,6-dimethyloctane	0,0127
n-propylbenzene	0,0687
1,3-methylethylbenzene	0,0652
N33	0,0258

Total Unknowns	0,596
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 022

CAS No. 64741-87-3

Component	Concentration % (m/m)
O2	0,002
n-pentane	0,003
t-pentene-2	0,003
3,3-dimethylbutene-1	0,002
2-methylbutene-2	0,012
3-methylbutadiene-1,2	0,007
cyclopentene	0,009
4-methylpentene-1	0,018
3-methylpentene-1	0,031
cyclopentane	0,009
2,3-dimethylbutane	0,135
4-methyl-c-pentene-2	0,037
2,3-dimethylbutene-1	0,022
2-methylpentane	0,731
4-methyl-t-pentene-2	0,099
3-methylpentane	0,808
2-methylpentene-1	0,318
hexene-1	0,164
1c/t,4-hexadiene	0,002
n-hexane	0,665
t-hexene-3	0,289
c-hexene-3	0,107
t-hexene-2	0,659
2-methylpentene-2	0,899
4-methylcyclopentene	0,225
3-methyl-c-pentene-2	0,624
3-methylcyclopentene	0,131
O13	0,008
c-hexene-2	0,428
O14	0,012
3,3-dimethylpentene-1	1,260
3-methyl-t-pentene-2	0,018
methylcyclopentane	1,945

2,4-dimethylpentane	0,340
2,3,3-trimethylbutene-1	0,345
cyclic diolefin or triolefin	0,056
2,2,3-trimethylbutane	0,101
cyclic diolefin or triolefin	0,045
O17	0,021
3,4-dimethylpentene-1	0,076
2,4-dimethylpentene-1	0,097
diolefin	0,095
1-methylcyclopentene	1,706
benzene	1,061
3-methylhexene-1	0,064
2-methyl-c-hexene-3	0,053
3,3-dimethylpentane	0,149
5-methylhexene-1	0,068
cyclohexane	0,314
2-methyl-t-hexene-3	0,213
diolefin (hexadiene)	0,040
2-ethyl-3-methylbutene-1	0,115
4-methylhexene-1	0,213
4-methyl-t/c-hexene-2	0,455
2-methylhexane	2,446
2,3-dimethylpentane	0,937
5-methyl-t-hexene-2	0,064
1,1-dimethylcyclopentane	0,313
cyclohexene	2,333
3,4-dimethyl-c-pentene-2	0,188
1c,3-dimethylcyclopentane	1,204
1t,3-dimethylcyclopentane	1,036
3-ethylpentane	0,548
1t,2-dimethylcyclopentane	0,628
2,2,4-trimethylpentane	0,282
heptene-1	0,198
2-ethylpentene-1	0,282
O25	0,027
3-methyl-c-hexene-3	0,346
t-heptene-3	0,008
n-heptane	1,266
c-heptene-3	1,628
3-methyl-c-hexene-2	1,253

3-methyl-t-hexene-3	0,501
t-heptene-2	0,415
3-ethylpentene-2	0,379
c-heptene-2	1,342
2,3-dimethylpentene-2	0,519
3-ethylcyclopentene	0,083
O29	0,128
1c,2-dimethylcyclopentane	0,864
methylcyclohexane	1,599
2,2-dimethylhexane	0,267
O32	0,012
O33	0,086
O34	0,015
O35	0,016
O36	0,779
ethylcyclopentane	0,449
2,2,3-trimethylpentane	1,185
2,4-dimethylhexane	0,100
O37	0,582
3,3-dimethylhexane	0,092
O38	0,444
1t,2c,3-trimethylcyclopentane	0,198
O39	0,227
2,3,4-trimethylpentane	1,600
I1	0,485
O40	0,046
toluene	9,356
O41	0,199
O42	0,092
O43	0,807
2,3-dimethylhexane	0,112
2-methyl-3-ethylpentane	0,289
1,1,2-trimethylcyclopentane	0,647
O46	1,914
*2-ethylhexene-1	0,639
4-methylheptane	0,088
3-methyl-3-ethylpentane	0,136
1c,2c,4-trimethylcyclopentane	0,624
3-methylheptane	1,728
1c,2t,3-trimethylcyclopentane	0,830

3-ethylhexane	0,302
1t,4-dimethylcyclohexane	0,092
1,3-octadiene	0,068
O48	0,032
1,1-dimethylcyclohexane	0,031
2,2,5-trimethylhexane	0,054
3c-ethylmethylcyclopentane	0,974
2,6-dimethylheptene-1	0,127
3t-ethylmethylcyclopentane	0,644
2t-ethylmethylcyclopentane	0,386
1,1-methylethylcyclopentane	0,195
2,2,4-trimethylhexane	0,239
1t,2-dimethylcyclohexane	0,693
t-octene-4	0,304
1c,2c,3-trimethylcyclopentane	0,775
1t,3-dimethylcyclohexane	0,134
n-octane	1,982
t-octene-2	0,332
I2	0,879
2,4,4-trimethylhexane	0,476
O52	0,112
c-octene-2 (O53)	0,151
N1	0,121
2,2,3,4-tetramethylpentane	0,091
2,3,4-trimethylhexane	0,272
N2	0,130
N3	0,184
2,3,3-trimethylhexene-1	0,183
1c,2-dimethylcyclohexane	0,196
2,3,5-trimethylhexane	0,274
2,2-dimethylheptane	0,060
N4	0,639
2,2,3-trimethylhexane	0,080
2,4-dimethylheptane	0,262
ethylcyclohexane	0,397
*1c,3c,5-trimethylcyclohexane	0,046
2,5-dimethylheptane	0,121
3,3-dimethylheptane	0,692
3,5-dimethylheptane	0,296
1,1,3-trimethylcyclohexane	0,251

N7	0,212
N8	0,070
N11	0,090
1c,2t,4t-trimethylcyclohexane	0,139
ethylbenzene	2,984
I3	0,154
I4	0,102
2-methyloctene-2	0,179
N13	0,087
1,3-dimethylbenzene	7,580
1,4-dimethylbenzene	3,179
2,3-dimethylheptane	0,196
3,4-dimethylheptane*	0,098
3,5-dimethylheptane*	0,132
4-methyloctane	0,120
N15	0,580
1c,2t,3-trimethylcyclohexane	0,921
3-ethylheptane	0,101
3-methyloctane	0,235
1,1,2-trimethylcyclohexane	0,788
1,2-dimethylbenzene	2,965
I7	0,063
N18	0,095
nonene-1	0,149
I8	0,113
N20	0,079
I9	0,082
i-butylcyclopentane	0,159
N21	0,067
t-7-methyloctene-3	0,200
N22	0,184
N23/c-nonene-2	0,030
t-nonene-3	0,085
I10	0,129
n-nonane	0,260
1,1-methylethylcyclohexane	0,087
3,7-dimethyloctene-1	0,058
N25	0,047
t-2,2,5,5-tetramethylhexene-3	0,053
N26	0,058

N27	0,088
i-propylcyclohexane	0,040
I12	0,037
2,2-dimethyloctane	0,011
2,4-dimethyloctane	0,074
N29	0,013
2,6-dimethyloctane	0,047
2,5-dimethyloctane	0,052
n-butylcyclopentane	0,028
I13	0,038
I14	0,008
3,3-dimethyloctane	0,037
n-propylbenzene	0,112
3,6-dimethyloctane	0,013
3-methyl-5-ethylheptane	0,015
1,3-methylethylbenzene	0,372
1,4-methylethylbenzene	0,124
1,3,5-trimethylbenzene	0,096
I15	0,010
5-methylnonane	0,013
I17	0,026
1,2-methylethylbenzene	0,076
3-methylnonane	0,012
t-butylbenzene	0,129
1,2,3-trimethylbenzene	0,009
2-3-dihydroindene	0,007
Total Unknowns	2,167
TOTAL	97,833

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 023

CAS No. 64742-73-0

Component	Concentration % (m/m)
i-butane	0,017
n-butane	0,217
2,2-dimethylpropane	0,005
1,2-butadiene	0,005
i-pentane	12,708
1,4-pentadiene	0,017
butyne-2	0,009
2-methylbutene-1	0,032
n-pentane	17,522
t-pentene-2	0,025
3,3-dimethylbutene-1	0,014
2-methylbutene-2	0,072
2,2-dimethylbutane	1,153
4-methylpentene-1	0,005
3-methylpentene-1	0,007
cyclopentane	1,709
2,3-dimethylbutane	1,936
4-methyl-c-pentene-2	0,014
2-methylpentane	11,902
4-methyl-t-pentene-2	0,060
O8	0,009
3-methylpentane	8,058
2-methylpentene-1	0,023
hexene-1	0,023
O11	0,008
n-hexane	15,212
t-hexene-3	0,028
c-hexene-3	0,017
t-hexene-2	0,036
2-methylpentene-2	0,051
3-methyl-c-pentene-2	0,029
O13	0,015
3,3-dimethylpentene-1	0,048

2,2-dimethylpentane	0,532
methylcyclopentane	4,570
2,4-dimethylpentane	0,787
2,2,3-trimethylbutane	0,076
4,4-dimethyl-c-pentene-2	0,007
1-methylcyclopentene	0,018
benzene	1,376
3-ethylpentene-1	0,013
3,3-dimethylpentane	0,395
2-methyl-c-hexene-3	0,016
cyclohexane	2,276
2-methyl-t-hexene-3	0,012
4-methyl-t/c-hexene-2	0,015
2-methylhexane	3,695
2,3-dimethylpentane	1,443
1,1-dimethylcyclopentane	0,238
cyclohexene	0,005
3-methylhexane	4,232
1,6-heptadiene	0,016
1c,3-dimethylcyclopentane	0,580
1t,3-dimethylcyclopentane	0,508
3-ethylpentane	0,362
1t,2-dimethylcyclopentane	0,918
2,2,4-trimethylpentane	0,054
heptene-1	0,008
3-methyl-c-hexene-3	0,007
t-heptene-3	0,010
n-heptane	3,640
3-methyl-c-hexene-2	0,041
3-methyl-t-hexene-3	0,016
t-heptene-2	0,008
3-ethylpentene-2	0,005
c-heptene-2	0,010
2,3-dimethylpentene-2	0,006
methylcyclohexane	1,579
2,2-dimethylhexane	0,077
ethylcyclopentane	0,195
2,5-dimethylhexane	0,039
2,4-dimethylhexane	0,047
1c,2t,4-trimethylcyclopentane	0,059

3,3-dimethylhexane	0,006
1t,2c,3-trimethylcyclopentane	0,063
O39	0,007
toluene	0,872
2,3-dimethylhexane	0,020
2-methyl-3-ethylpentane	0,009
2-methylheptane	0,050
4-methylheptane	0,013
1c,3-dimethylcyclohexane	0,024
1t,4-dimethylcyclohexane	0,029
3-ethylhexane	0,009
2t-ethylmethylcyclopentane	0,008
n-octane	0,019
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 026

CAS No. 68475-79-6

Component	Concentration % (m/m)
i-butane	0,1973
n-butane	2,5892
2,2-dimethylpropane	0,0232
c-butene-2	0,0163
3-methylbutene-1	0,0518
i-pentane	56,8992
pentene-1	0,0868
2-methylbutene-1	0,3068
n-pentane	34,8352
t-pentene-2	0,2047
3,3-dimethylbutene-1	0,1212
2-methylbutene-2	0,5582
2,2-dimethylbutane	2,1539
cyclopentane	0,5281
2,3-dimethylbutane	0,295
2-methylpentane	0,7661
3-methylpentane	0,2176
n-hexane	0,037
benzene	0,1124
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 027

CAS No. 68527-27-5

Component	Concentration % (m/m)
i-butane	0,1745
butene-1	0,0038
n-butane	2,3341
t-butene-2	0,0116
2,2-dimethylpropane	0,004
i-pentane	2,847
2,3-dimethylbutane	1,611
2-methylpentane	0,4923
3-methylpentane	0,2298
2,4-dimethylpentane	1,8329
2,2,3-trimethylbutane	0,0625
2-methylhexane	0,0967
2,3-dimethylpentane	0,9693
1,1-dimethylcyclopentane	0,0098
3-methylhexane	0,0613
2,2,4-trimethylpentane	42,514
n-heptane	0,0098
c-heptene-2	0,0038
1c,2-dimethylcyclopentane	0,0069
2,2-dimethylhexane	0,0102
2,2,3-trimethylpentane	2,9426
2,5-dimethylhexane	0,7096
2,4-dimethylhexane	5,0883
2,3,4-trimethylpentane	13,4018
2,3,3-trimethylpentane	7,7093
2,3-dimethylhexane	6,7767
2-methyl-3-ethylpentane	0,2414
2-methylheptane	0,0711
3-methyl-3-ethylpentane	0,0175
4-methylheptane	0,3992
3,4-dimethylhexane	0,4216
3-methylheptane	0,0684
1c,2t,3-trimethylcyclopentane	0,015
O48	0,0061
2,2,5-trimethylhexane	0,9924
1,1-methylethylcyclopentane	0,0184
1t,2-dimethylcyclohexane	0,0089
I2	0,0615
2,3,4-trimethylhexane	0,1603
2,3,5-trimethylhexane	0,0199
2,4-dimethylheptane	0,0141
3,5-dimethylheptane	0,0431
1c,2t,4t-trimethylcyclohexane	0,0117
3,4-dimethylheptane*	0,0256

3-ethylheptane	0,0764
3-methyloctane	0,013
I6	0,0834
I7	0,0877
I9	0,0853
I10	0,0495
1,1-methylethylcyclohexane	0,0063
I12	0,036
2,2-dimethyloctane	0,0068
2,4-dimethyloctane	0,006
N29	0,0073
2,6-dimethyloctane	0,0064
2,5-dimethyloctane	0,0057
I13	0,08
I17	0,5196
I18	0,1258
I19	0,0046
I20	0,0296
i-butylcyclohexane	0,0064
I21	0,0271
I22	0,0178
I23	0,0091
I24	0,0897
I25	0,0582
I26	0,0086
I29	0,0851
sec-butylcyclohexane	0,0077
I30	0,0095
I31	0,7615
I32	0,2518
I33	0,6253
I34	0,2109
t-decahydronaphthalene	0,0066
N41	0,0764
I35	0,0651
I36	1,0461
I37	0,1537
I38	0,0871
I39	0,5772
I40	0,0521
I41	0,077
I42	0,0263
I43	0,483
n-undecane	0,0559
I43	0,019
I45	0,0157
I46	0,0138
n-tridecane	0,0057

Total Unknowns	1,331
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 029

CAS No. 68783-12-0

Component	Concentration % (m/m)
i-pentane	0,153
n-pentane	0,421
2-methylbutene-2	0,009
2,2-dimethylbutane	0,058
cyclopentane	0,223
2,3-dimethylbutane	0,213
2-methylpentane	1,567
4-methyl-t-pentene-2	0,017
O8	0,006
3-methylpentane	1,155
2-methylpentene-1	0,008
hexene-1	0,006
O11	0,011
n-hexane	4,202
t-hexene-3	0,015
t-hexene-2	0,017
2-methylpentene-2	0,012
3-methyl-c-pentene-2	0,005
c-hexene-2	0,004
3,3-dimethylpentene-1	0,007
2,2-dimethylpentane	0,127
methylcyclopentane	2,950
2,4-dimethylpentane	0,277
2,2,3-trimethylbutane	0,030
1-methylcyclopentene	0,014
benzene	1,424
3,3-dimethylpentane	0,095
cyclohexane	4,889
2-ethyl-3-methylbutene-1	0,005
2-methylhexane	1,720
2,3-dimethylpentane	0,688
1,1-dimethylcyclopentane	0,443
cyclohexene	0,008

3-methylhexane	2,064
1c,3-dimethylcyclopentane	0,840
1t,3-dimethylcyclopentane	0,768
3-ethylpentane	0,201
1t,2-dimethylcyclopentane	1,381
2,2,4-trimethylpentane	0,048
heptene-1	0,021
2-ethylpentene-1	0,005
t-heptene-3	0,009
n-heptane	5,715
3-methyl-c-hexene-2	0,033
t-heptene-2	0,015
c-heptene-2	0,009
2,3-dimethylpentene-2	0,009
methylcyclohexane	9,903
2,2-dimethylhexane	0,528
ethylcyclopentane	0,612
2,5-dimethylhexane	0,273
2,4-dimethylhexane	0,381
1c,2t,4-trimethylcyclopentane	0,496
3,3-dimethylhexane	0,101
2,3,4-trimethylpentane	0,531
I1	0,100
O40	0,013
2,3,3-trimethylpentane	0,034
toluene	4,610
2,3-dimethylhexane	0,483
2-methyl-3-ethylpentane	0,107
1,1,2-trimethylcyclopentane	0,008
2-methylheptane	2,068
4-methylheptane	0,653
3-methyl-3-ethylpentane	0,076
3,4-dimethylhexane	0,098
1c,2c,4-trimethylcyclopentane	0,088
1c,3-dimethylcyclohexane	1,305
1t,2c,3-trimethylcyclopentane	2,404
1t,4-dimethylcyclohexane	0,900
1,1-dimethylcyclohexane	0,329
2,2,5-trimethylhexane	0,025
3c-ethylmethylcyclopentane	0,235

3t-ethylmethylcyclopentane	0,201
2t-ethylmethylcyclopentane	0,556
2,2,4-trimethylhexane	0,079
1t,2-dimethylcyclohexane	1,133
1t,3-dimethylcyclohexane	0,015
n-octane	4,297
1c,4-dimethylcyclohexane	1,615
t-octene-2	0,008
I2	0,008
i-propylcyclopentane	0,105
c-octene-2 (O53)	0,006
N1	0,045
2,3,4-trimethylhexane	0,044
N2	0,066
N3	0,087
1c,2-dimethylcyclohexane	0,239
2,3,5-trimethylhexane	0,342
2,2-dimethylheptane	0,041
1,1,4-trimethylcyclohexane	2,708
2,2,3-trimethylhexane	0,045
2,4-dimethylheptane	0,667
4,4-dimethylheptane	0,036
ethylcyclohexane	0,772
2,5-dimethylheptane	0,130
3,3-dimethylheptane	0,432
3,5-dimethylheptane	0,122
2,6-dimethylheptane	0,074
1,1,3-trimethylcyclohexane	0,150
N7	0,074
N10	0,068
ethylbenzene	1,233
I3	0,529
I4	0,061
N12	0,046
1,3-dimethylbenzene	3,162
1,4-dimethylbenzene	1,063
2,3-dimethylheptane	0,560
3,4-dimethylheptane*	0,323
N14	0,076
I5	0,041

4-ethylheptane	0,139
4-methyloctane	0,630
2-methyloctane	0,865
N15	0,057
1c,2t,3-trimethylcyclohexane	0,146
3-ethylheptane	0,216
3-methyloctane	0,894
1c,2t,4c-trimethylcyclohexane	0,089
1,1,2-trimethylcyclohexane	0,120
1,2-dimethylbenzene	1,455
I7	0,019
N18	0,023
N19	0,013
N20	0,994
I9	0,175
i-butylcyclopentane	0,353
N21	0,022
t-7-methyloctene-3	0,045
N22	0,109
N23/c-nonene-2	0,072
t-nonene-3	0,006
I10	0,056
n-nonane	4,132
1,1-methylethylcyclohexane	0,095
N25	0,083
i-propylbenzene	0,009
N26	0,209
N27	0,389
i-propylcyclohexane	0,275
I12	0,102
2,2-dimethyloctane	0,088
2,4-dimethyloctane	0,157
N28	0,025
N29	0,076
2,6-dimethyloctane	0,754
2,5-dimethyloctane	0,160
n-butylcyclopentane	0,135
N30	0,161
I14	0,061
3,3-dimethyloctane	0,449

N31	0,101
n-propylbenzene	0,111
3,6-dimethyloctane	0,331
3-methyl-5-ethylheptane	0,041
N32	0,072
1,3-methylethylbenzene	0,101
1,4-methylethylbenzene	0,550
N33	0,217
I15	0,047
1,3,5-trimethylbenzene	0,458
2,3-dimethyloctane	0,095
N34	0,047
I16	0,027
5-methylnonane	0,102
1,2-methylethylbenzene	0,297
2-methylnonane	0,534
3-ethyloctane	0,035
N35	0,128
3-methylnonane	0,030
N36	0,284
3-ethyl-2-methylheptene-2	0,007
I18	0,012
I19	0,016
t-butylbenzene	0,012
1,2,4-trimethylbenzene	0,773
i-butylcyclohexane	0,155
I22	0,035
I23	0,022
N37	0,020
decene-1	0,030
I24	0,027
2,3-dimethyloctene-2	0,040
i-butylbenzene	0,034
sec-butylbenzene	0,026
n-decane	0,052
I26	0,858
N38	0,018
1,2,3-trimethylbenzene	0,148
N39	0,045
1,4-methyl-i-propylbenzene	0,006

I27	0,027
I29	0,009
2-3-dihydroindene	0,006
sec-butylcyclohexane	0,006
I30	0,037
1,2-methyl-i-propylbenzene	0,018
3-ethylnonane	0,036
N40	0,007
I31	0,028
I32	0,010
1,3-diethylbenzene	0,009
I33	0,023
n-butylbenzene	0,005
1,3-dimethyl-5-ethylbenzene	0,005
1,2-diethylbenzene	0,006
Total Unknowns	0,459
TOTAL	99,541

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 030

CAS No. 68955-35-1

Component	Concentration % (m/m)
propane	0,001
n-butane	0,501
vinyl acetylene	0,002
t-butene-2	0,005
1,2-butadiene	0,012
i-pentane	14,650
O2	0,022
butyne-2	0,021
2-methylbutene-1	0,076
n-pentane	9,719
isoprene	0,054
3,3-dimethylbutene-1	0,003
c-pentene-2	0,031
2-methylbutene-2	0,167
2,2-dimethylbutane	2,245
1c,3-pentadiene	0,005
cyclopentene	0,008
4-methylpentene-1	0,012
3-methylpentene-1	0,019
cyclopentane	0,418
2,3-dimethylbutane	2,176
4-methyl-c-pentene-2	0,033
2-methylpentane	10,734
2,3-dimethylbutene-1	0,090
4-methyl-t-pentene-2	0,009
3-methylpentane	8,131
2-methylpentene-1	0,026
hexene-1	0,061
O11	0,023
n-hexane	9,365
t-hexene-3	0,043
c-hexene-3	0,020
t-hexene-2	0,067

2-methylpentene-2	0,112
3-methyl-c-pentene-2	0,064
3-methylcyclopentene	0,007
O13	0,006
c-hexene-2	0,033
3,3-dimethylpentene-1	0,095
2,2-dimethylpentane	0,756
methylcyclopentane	1,205
2,4-dimethylpentane	0,953
2,2,3-trimethylbutane	0,089
cyclic diolefin or triolefin	0,002
4,4-dimethyl-c-pentene-2	0,011
2,4-dimethylpentene-1	0,032
benzene	20,678
3,3-dimethylpentane	0,659
2-methyl-c-hexene-3	0,037
cyclohexane	0,189
2-methyl-t-hexene-3	0,020
2-ethyl-3-methylbutene-1	0,007
4-methylhexene-1	0,028
2-methylhexane	4,558
2,3-dimethylpentane	1,762
5-methyl-t-hexene-2	0,098
1,1-dimethylcyclopentane	0,003
3-methylhexane	5,339
1,6-heptadiene	0,026
1c,3-dimethylcyclopentane	0,166
1t,3-dimethylcyclopentane	0,158
3-ethylpentane	0,488
1t,2-dimethylcyclopentane	0,212
2,2,4-trimethylpentane	0,006
heptene-1	0,016
3-methyl-c-hexene-3	0,016
t-heptene-3	0,025
n-heptane	2,351
3-methyl-c-hexene-2	0,068
3-methyl-t-hexene-3	0,027
t-heptene-2	0,014
3-ethylpentene-2	0,012
c-heptene-2	0,026

2,3-dimethylpentene-2	0,017
1c,2-dimethylcyclopentane	0,027
methylcyclohexane	0,079
O30	0,009
ethylcyclopentane	0,020
2,2,3-trimethylpentane	0,006
toluene	0,701
Total Unknowns	0,043
TOTAL	99,957

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 5

Component	Concentration % (m/m)
i-butane	0,007
n-butane	0,815
t-butene-2	0,006
2,2-dimethylpropane	0,003
c-butene-2	0,005
3-methylbutene-1	0,003
i-pentane	0,111
pentene-1	0,006
2-methylbutene-1	0,019
n-pentane	0,176
t-pentene-2	0,040
3,3-dimethylbutene-1	0,015
c-pentene-2	0,061
2,2-dimethylbutane	0,057
4-methylpentene-1	0,051
cyclopentane	8,267
2,3-dimethylbutane	0,608
2-methylpentane	4,446
4-methyl-t-pentene-2	0,006
3-methylpentane	2,765
hexene-1	0,012
n-hexane	6,733
c-hexene-3	0,014
2,2-dimethylpentane	0,058
methylcyclopentane	13,969
2,4-dimethylpentane	0,654
2,2,3-trimethylbutane	0,029
benzene	5,939
3,3-dimethylpentane	0,039
cyclohexane	3,913
2-methylhexane	4,739
2,3-dimethylpentane	1,267
1,1-dimethylcyclopentane	0,523

3-methylhexane	5,070
1c,3-dimethylcyclopentane	2,264
1t,3-dimethylcyclopentane	1,773
3-ethylpentane	0,412
1t,2-dimethylcyclopentane	1,966
n-heptane	3,849
2-methyl-2-hexene	0,013
1c,2-dimethylcyclopentane	1,263
methylcyclohexane	5,070
2,2-dimethylhexane	0,594
ethylcyclopentane	2,390
2,5-dimethylhexane	0,572
2,2,3-trimethylpentane	0,775
1c,2t,4-trimethylcyclopentane	0,748
3,3-dimethylhexane	0,033
1t,2c,3-trimethylcyclopentane	0,063
2,3,4-trimethylpentane	0,430
I1	0,013
toluene	2,031
2,3-dimethylhexane	0,530
2-methyl-3-ethylpentane	0,079
1,1,2-trimethylcyclopentane	0,012
2-methylheptane	2,066
1t,4-dimethylcyclohexane	0,835
4-methylheptane	0,102
3-methyl-3-ethylpentane	0,114
1c,3-dimethylcyclohexane	0,381
3-methylheptane	2,232
3-ethylhexane	0,937
1c,2c,4-trimethylcyclopentane	0,399
1,1-dimethylcyclohexane	0,069
2,2,5-trimethylhexane	0,011
3c-ethylmethylcyclopentane	0,555
3t-ethylmethylcyclopentane	0,427
2t-ethylmethylcyclopentane	0,288
1,1-methylethylcyclopentane	0,028
1t,2-dimethylcyclohexane	0,172
1t,3-dimethylcyclohexane	0,102
n-octane	1,439
i-propylcyclopentane	0,163

2,4,4-trimethylhexane	0,007
N1	0,014
2,2,3,4-tetramethylpentane	0,010
N2	0,052
N3	0,178
2,3,4-trimethylhexane	0,025
1c,2-dimethylcyclohexane	0,010
2,3,5-trimethylhexane	0,101
2,2-dimethylheptane	0,169
1,1,4-trimethylcyclohexane	0,012
N4	0,603
2,2,3-trimethylhexane	0,038
2,4-dimethylheptane	0,105
4,4-dimethylheptane	0,049
ethylcyclohexane	0,036
2,5-dimethylheptane	0,016
3,5-dimethylheptane	0,257
2,6-dimethylheptane	0,045
1,1,3-trimethylcyclohexane	0,033
N7	0,061
N8	0,032
N11	0,010
ethylbenzene	0,478
I4	0,022
N13	0,012
1,3-dimethylbenzene	0,392
1,4-dimethylbenzene	0,237
N14	0,072
I5	0,021
4-ethylheptane	0,015
N15	0,056
4-methyloctane	0,198
2-methyloctane	0,213
1c,2t,3-trimethylcyclohexane	0,013
3-ethylheptane	0,021
1c,2t,4c-trimethylcyclohexane	0,055
3-methyloctane	0,205
1,1,2-trimethylcyclohexane	0,017
1,2-dimethylbenzene	0,011
I7	0,081

N19	0,039
I8	0,015
N20	0,008
N21	0,012
n-nonane	0,037
1,1-methylethylcyclohexane	0,008
N27	0,007
1,3-methylethylbenzene	0,006
Total Unknowns	0,271
TOTAL	99,730

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 035

CAS No. 64742-89-8

Component	Concentration % (m/m)
propane	0,019
i-butane	0,319
n-butane	2,129
t-butene-2	0,027
i-pentane	18,282
1,4-pentadiene	0,025
2-methylbutene-1	0,007
n-pentane	19,004
2-methylbutene-2	0,009
2,2-dimethylbutane	0,453
cyclopentane	1,882
2,3-dimethylbutane	1,450
2-methylpentane	9,669
4-methyl-t-pentene-2	0,049
O8	0,011
3-methylpentane	6,027
2-methylpentene-1	0,025
n-hexane	13,692
c-hexene-3	0,025
2-methylpentene-2	0,006
2,2-dimethylpentane	0,202
methylcyclopentane	6,163
2,4-dimethylpentane	0,441
2,2,3-trimethylbutane	0,042
benzene	1,673
3,3-dimethylpentane	0,104
cyclohexane	4,225
2-methylhexane	1,843
2,3-dimethylpentane	0,822
1,1-dimethylcyclopentane	0,388
3-methylhexane	2,150
1c,3-dimethylcyclopentane	0,762
1t,3-dimethylcyclopentane	0,650

3-ethylpentane	0,180
1t,2-dimethylcyclopentane	1,216
2,2,4-trimethylpentane	0,018
n-heptane	2,582
3-methyl-c-hexene-2	0,006
1c,2-dimethylcyclopentane	0,093
methylcyclohexane	1,890
2,2-dimethylhexane	0,091
ethylcyclopentane	0,155
2,5-dimethylhexane	0,035
2,2,3-trimethylpentane	0,042
1c,2t,4-trimethylcyclopentane	0,063
3,3-dimethylhexane	0,008
1t,2c,3-trimethylcyclopentane	0,066
2,3,4-trimethylpentane	0,006
toluene	0,608
2,3-dimethylhexane	0,026
2-methyl-3-ethylpentane	0,008
4-methylheptane	0,087
3-methyl-3-ethylpentane	0,021
3-methylheptane	0,040
1c,2t,3-trimethylcyclopentane	0,038
1t,4-dimethylcyclohexane	0,014
1,1-dimethylcyclohexane	0,007
2,2,5-trimethylhexane	0,009
3t-ethylmethylcyclopentane	0,007
2t-ethylmethylcyclopentane	0,016
1t,2-dimethylcyclohexane	0,014
n-octane	0,066
1,1,4-trimethylcyclohexane	0,010
1,4-dimethylbenzene	0,008
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 037

CAS No. 68476-50-6

Component	Concentration % (m/m)
i-butane	0,0551
n-butane	2,0341
t-butene-2	0,0022
2,2-dimethylpropane	0,1371
c-butene-2	0,0028
3-methylbutene-1	0,0084
i-pentane	23,8127
O2	0,0215
pentene-1	0,0126
2-methylbutene-1	0,0297
n-pentane	25,3684
t-pentene-2	0,023
3,3-dimethylbutene-1	0,0116
2-methylbutene-2	0,0515
2,2-dimethylbutane	1,0631
cyclopentene	0,0113
4-methylpentene-1	0,004
3-methylpentene-1	0,0063
cyclopentane	2,392
2,3-dimethylbutane	1,5285
4-methyl-c-pentene-2	0,0132
2-methylpentane	7,6181
2,3-dimethylbutene-1	0,0476
4-methyl-t-pentene-2	0,0075
3-methylpentane	4,3673
2-methylpentene-1	0,0161
hexene-1	0,0171
O11	0,0059
n-hexane	8,3378
t-hexene-3	0,0313
t-hexene-2	0,0223
2-methylpentene-2	0,0315
3-methyl-c-pentene-2	0,0154
3-methylcyclopentene	0,0058
c-hexene-2	0,0081
4,4-dimethyl-t-pentene-2	0,0201
2,2-dimethylpentane	0,1544
methylcyclopentane	3,3747
2,4-dimethylpentane	0,2194
cyclic diolefin or triolefin	0,0383
2,4-dimethylpentene-1	0,0097
benzene	4,0891
3,3-dimethylpentane	0,0975

cyclohexane	2,2991
2-methylhexane	0,8571
2,3-dimethylpentane	0,3168
1,1-dimethylcyclopentane	0,1746
3-methylhexane	0,8705
1c,3-dimethylcyclopentane	0,2636
1t,2-dimethylcyclopentane	0,2391
3-ethylpentane	0,069
1t,3-dimethylcyclopentane	0,4146
n-heptane	1,8965
3-methyl-c-hexene-2	0,0122
methylcyclohexane	2,1766
2,2-dimethylhexane	0,115
ethylcyclopentane	0,1084
2,5-dimethylhexane	0,0619
2,4-dimethylhexane	0,0641
1c,2t,4-trimethylcyclopentane	0,0783
3,3-dimethylhexane	0,0222
1t,2c,3-trimethylcyclopentane	0,0745
O39	0,0081
toluene	1,2555
2,3-dimethylhexane	0,0655
2-methyl-3-ethylpentane	0,0137
2-methylheptane	0,2996
4-methylheptane	0,1058
1c,3-dimethylcyclohexane	0,1842
3-methylheptane	0,2945
1t,4-dimethylcyclohexane	0,113
1,1-dimethylcyclohexane	0,046
2,2,5-trimethylhexane	0,0195
3c-ethylmethylcyclopentane	0,0168
3t-ethylmethylcyclopentane	0,0343
1,1-methylethylcyclopentane	0,0062
1t,2-dimethylcyclohexane	0,1014
n-octane	0,66
N3	0,0077
1c,2-dimethylcyclohexane	0,0167
2,3,5-trimethylhexane	0,0157
N4	0,1174
2,4-dimethylheptane	0,0472
ethylcyclohexane	0,0622
2,5-dimethylheptane	0,0095
3,5-dimethylheptane	0,0256
ethylbenzene	0,046
I3	0,0292
1,3-dimethylbenzene	0,1799
1,4-dimethylbenzene	0,0782
N14	0,0096
N15	0,0268
1c,2t,3-trimethylcyclohexane	0,0431
3-methyloctane	0,0084
1c,2t,4c-trimethylcyclohexane	0,0084

1,1,2-trimethylcyclohexane	0,0394
1,2-dimethylbenzene	0,0573
I8	0,0238
N20	0,01
n-nonane	0,2275
N27	0,0119
i-propylcyclohexane	0,0068
2,6-dimethyloctane	0,0236
2,5-dimethyloctane	0,0056
3,3-dimethyloctane	0,0209
3,6-dimethyloctane	0,0073
3-methyl-5-ethylheptane	0,0093
1,3-methylethylbenzene	0,0144
1,4-methylethylbenzene	0,0056
N33	0,0087
1,3,5-trimethylbenzene	0,0194
I17	0,0137
2-methylnonane	0,0193
3-methylnonane	0,0123
1,2,4-trimethylbenzene	0,0287
i-butylcyclohexane	0,0041
n-decane	0,1038
1,2,3-trimethylbenzene	0,0067
1,2-methyl-i-propylbenzene	0,0127
I31	0,0081
A3	0,0059
n-undecane	0,0589
1-t-butyl-3,5-dimethylbenzene	0,004
n-dodecane	0,0317
1,3,5-triethylbenzene	0,0049

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 038

CAS No. 68513-03-1

Component	Concentration % (m/m)
ethane	0,0083
propylene	0,0022
propane	0,0495
i-butane	0,8242
butene-1	0,0439
n-butane	2,0796
t-butene-2	0,0194
2,2-dimethylpropane	0,0036
c-butene-2	0,0158
3-methylbutene-1	0,0135
i-pentane	6,2736
pentene-1	0,0248
2-methylbutene-1	0,0958
n-pentane	4,8807
isoprene	0,0042
t-pentene-2	0,0729
3,3-dimethylbutene-1	0,0065
c-pentene-2	0,0404
2-methylbutene-2	0,2161
2,2-dimethylbutane	2,0728
cyclopentene	0,0644
4-methylpentene-1	0,0303
3-methylpentene-1	0,0488
cyclopentane	1,4574
2,3-dimethylbutane	2,2013
4-methyl-c-pentene-2	0,076
2-methylpentane	10,9144
2,3-dimethylbutene-1	0,1461
4-methyl-t-pentene-2	0,0069
3-methylpentane	8,5789
2-methylpentene-1	0,02
hexene-1	0,1716
O11	0,0597
n-hexane	11,1508
t-hexene-3	0,1068
c-hexene-3	0,0402
t-hexene-2	0,1891
2-methylpentene-2	0,3031
4-methylcyclopentene	0,0482
3-methyl-c-pentene-2	0,1912
3-methylcyclopentene	0,032
c-hexene-2	0,1058
4,4-dimethyl-t-pentene-2	0,3008

2,2-dimethylpentane	0,816
methylcyclopentane	2,656
2,4-dimethylpentane	1,0317
2,3,3-trimethylbutene-1	0,008
cyclic diolefin or triolefin	0,1296
2,2,3-trimethylbutane	0,0055
cyclic diolefin or triolefin	0,0088
O17	0,0083
3,4-dimethylpentene-1	0,0044
4,4-dimethyl-c-pentene-2	0,0325
2,4-dimethylpentene-1	0,2099
benzene	0,3347
3-methylhexene-1	0,0181
3,3-dimethylpentane	0,7493
2-methyl-c-hexene-3	0,0519
5-methylhexene-1	0,0162
cyclohexane	0,216
2-methyl-t-hexene-3	0,0529
diolefin (hexadiene)	0,0046
2-ethyl-3-methylbutene-1	0,0246
4-methylhexene-1	0,093
2-methylhexane	5,3385
2,3-dimethylpentane	2,1123
5-methyl-t-hexene-2	0,1045
cyclohexene	0,0176
3-methylhexane	6,6224
1,6-heptadiene	0,0593
5-methyl-c-hexene-2	0,1766
1c,3-dimethylcyclopentane	0,1634
1t,3-dimethylcyclopentane	0,6736
3-ethylpentane	0,2212
1t,2-dimethylcyclopentane	0,0504
2,2,4-trimethylpentane	0,023
heptene-1	0,0529
3-methyl-c-hexene-3	0,0601
t-heptene-3	0,1041
n-heptane	4,7116
3-methyl-c-hexene-2	0,2729
3-methyl-t-hexene-3	0,1044
t-heptene-2	0,0748
3-ethylpentene-2	0,053
c-heptene-2	0,1326
2,3-dimethylpentene-2	0,111
O29	0,0816
methylcyclohexane	0,1082
2,2-dimethylhexane	0,2103
ethylcyclopentane	0,0818
2,4-dimethylhexane	0,2343
2,2,3-trimethylpentane	0,4021
1c,2t,4-trimethylcyclopentane	0,0385
3,3-dimethylhexane	0,1443
1t,2c,3-trimethylcyclopentane	0,0418

O39	0,0201
2,3,4-trimethylpentane	0,041
I1	0,0048
O40	0,0091
toluene	6,4884
O43	0,0044
2,3-dimethylhexane	0,2402
2-methyl-3-ethylpentane	0,0462
1,1,2-trimethylcyclopentane	0,0055
2-methylheptane	0,682
4-methylheptane	0,3388
3,4-dimethylhexane	0,0656
3-methyl-3-ethylpentane	0,0582
1c,2c,4-trimethylcyclopentane	0,0208
3-methylheptane	0,7756
3-ethylhexane	0,2182
2,2,5-trimethylhexane	0,0376
3c-ethylmethylcyclopentane	0,0198
3t-ethylmethylcyclopentane	0,0193
2t-ethylmethylcyclopentane	0,0131
2,2,4-trimethylhexane	0,0117
1t,2-dimethylcyclohexane	0,0155
t-octene-4	0,0109
1c,2c,3-trimethylcyclopentane	0,0253
n-octane	0,5088
t-octene-2	0,0072
I2	0,0095
i-propylcyclopentane	0,0115
N3	0,0158
2,3,5-trimethylhexane	0,0176
2,4-dimethylheptane	0,0106
3,5-dimethylheptane	0,0332
2,6-dimethylheptane	0,0159
ethylbenzene	1,2287
1,3-dimethylbenzene	3,1038
1,4-dimethylbenzene	1,4493
4-methyloctane	0,0081
N15	0,0315
3-ethylheptane	0,0351
1c,2t,4c-trimethylcyclohexane	0,0091
3-methyloctane	0,0395
1,2-dimethylbenzene	1,0389
n-nonane	0,0272
i-propylbenzene	0,0838
3,6-dimethyloctane	0,1498
1,3-methylethylbenzene	0,3318
1,4-methylethylbenzene	0,1501
1,3,5-trimethylbenzene	0,1033
1,2-methylethylbenzene	0,0815
1,2,4-trimethylbenzene	0,2243
1,2,3-trimethylbenzene	0,0158

Total Unknowns	0,040
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TOTAL	100,000
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DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 039

CAS No. 64741-41-9

Component	Concentration % (m/m)
methane	0,003
ethane	0,030
propane	0,335
n-butane	1,350
2,2-dimethylpropane	0,010
i-pentane	2,184
n-pentane	2,761
2,2-dimethylbutane	0,134
cyclopentane	0,560
2,3-dimethylbutane	0,351
2-methylpentane	2,198
3-methylpentane	1,453
n-hexane	3,834
2,2-dimethylpentane	0,126
methylcyclopentane	3,316
2,4-dimethylpentane	0,219
2,2,3-trimethylbutane	0,037
benzene	1,651
cyclohexane	4,250
2-methylhexane	1,635
2,3-dimethylpentane	0,574
1,1-dimethylcyclopentane	0,464
3-methylhexane	1,861
1c,3-dimethylcyclopentane	0,926
1t,3-dimethylcyclopentane	0,870
3-ethylpentane	0,164
1t,2-dimethylcyclopentane	1,523
n-heptane	4,996
methylcyclohexane	10,745
2,2-dimethylhexane	0,599
ethylcyclopentane	0,660
2,5-dimethylhexane	0,279
2,2,3-trimethylpentane	0,320

1c,2t,4-trimethylcyclopentane	0,548
3,3-dimethylhexane	0,102
1t,2c,3-trimethylcyclopentane	0,599
2,3,4-trimethylpentane	0,059
2,3,3-trimethylpentane	0,026
toluene	5,996
2,3-dimethylhexane	0,476
2-methyl-3-ethylpentane	0,090
2-methylheptane	2,134
4-methylheptane	0,613
3-methyl-3-ethylpentane	0,065
3,4-dimethylhexane	0,081
1c,2c,4-trimethylcyclopentane	0,082
3-methylheptane	1,372
1c,2t,3-trimethylcyclopentane	3,018
3-ethylhexane	1,153
1,1-dimethylcyclohexane	0,422
2,2,5-trimethylhexane	0,026
3c-ethylmethylcyclopentane	0,251
3t-ethylmethylcyclopentane	0,227
2t-ethylmethylcyclopentane	0,593
1,1-methylethylcyclopentane	0,078
1t,2-dimethylcyclohexane	1,364
1t,3-dimethylcyclohexane	0,013
1c,4-dimethylcyclohexane	1,430
n-octane	4,599
2,4,4-trimethylhexane	0,123
N1	0,006
2,2,3,4-tetramethylpentane	0,008
2,3,4-trimethylhexane	0,060
N2	0,037
N3	0,066
1c,2-dimethylcyclohexane	0,094
2,3,5-trimethylhexane	0,265
2,2-dimethylheptane	0,283
1,1,4-trimethylcyclohexane	0,036
N4	2,339
2,2,3-trimethylhexane	0,039
2,4-dimethylheptane	0,814
ethylcyclohexane	0,871

2,5-dimethylheptane	0,159
3,5-dimethylheptane	0,459
2,6-dimethylheptane	0,183
1,1,3-trimethylcyclohexane	0,136
N7	0,068
N10	0,061
ethylbenzene	1,346
N11	0,436
I3	0,051
N13	0,030
1,3-dimethylbenzene	3,598
1,4-dimethylbenzene	1,554
N14	0,304
I5	0,053
4-ethylheptane	0,038
4-methyloctane	0,098
N15	0,455
1c,2t,3-trimethylcyclohexane	0,711
3-ethylheptane	0,047
3-methyloctane	0,111
1c,2t,4c-trimethylcyclohexane	0,135
1,1,2-trimethylcyclohexane	0,662
I6	0,050
I7	0,091
1,2-dimethylbenzene	1,298
N18	0,014
N19	0,015
I8	0,011
N20	0,611
I9	0,117
i-butylcyclopentane	0,216
N21	0,013
N22	0,026
N23/c-nonene-2	0,057
I10	0,054
n-nonane	2,268
1,1-methylethylcyclohexane	0,055
N25	0,039
N26	0,144
N27	0,218

i-propylcyclohexane	0,124
I12	0,047
2,2-dimethyloctane	0,046
2,4-dimethyloctane	0,058
N28	0,009
N29	0,026
2,6-dimethyloctane	0,259
2,5-dimethyloctane	0,055
n-butylcyclopentane	0,048
N30	0,042
t-butylbenzene	0,014
I14	0,019
3,3-dimethyloctane	0,154
N31	0,028
n-propylbenzene	0,039
3,6-dimethyloctane	0,141
3-methyl-5-ethylheptane	0,014
N32	0,067
1,3-methylethylbenzene	0,019
1,4-methylethylbenzene	0,028
N33	0,220
1,3,5-trimethylbenzene	0,023
2,3-dimethyloctane	0,007
I15	0,147
N34	0,016
I16	0,009
5-methylnonane	0,005
I17	0,017
1,2-methylethylbenzene	0,052
2-methylnonane	0,117
3-ethyloctane	0,008
N35	0,023
3-methylnonane	0,047
1,2,4-trimethylbenzene	0,160
i-butylcyclohexane	0,024
I22	0,005
I23	0,008
i-butylbenzene	0,005
I25	0,005
sec-butylbenzene	0,012

n-decane	0,116
1,3-methyl-i-propylbenzene	0,025
N39	0,008
I27	0,005
sec-butylcyclohexane	0,005
I30	0,006
1,2-methyl-i-propylbenzene	0,012
I31	0,010
I33	0,008
1,2-diethylbenzene	0,004
N41	0,004
n-undecane	0,014
n-dodecane	0,005
n-tridecane	0,004
Total Unknowns	0,770
TOTAL	99,230

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 6

Component	Concentration % (m/m)
2,3-dimethylbutane	0,0211
2-methylpentane	0,4064
3-methylpentane	2,0998
hexene-1	0,0128
2-methylpentene-1	0,0209
O11	0,014
n-hexane	12,3205
t-hexene-3	0,0857
c-hexene-3	0,0319
t-hexene-2	0,1828
2-methylpentene-2	0,297
3-methyl-c-pentene-2	0,2092
3-methylcyclopentene	0,0117
c-hexene-2	0,1238
3,3-dimethylpentene-1	0,4846
2,2-dimethylpentane	1,4269
methylcyclopentane	2,155
2,4-dimethylpentane	1,6956
2,3,3-trimethylbutene-1	0,19
cyclic diolefin or triolefin	0,0137
2,2,3-trimethylbutane	0,2215
cyclic diolefin or triolefin	0,0087
O17	0,0141
3,4-dimethylpentene-1	0,0076
4,4-dimethyl-c-pentene-2	0,0639
2,4-dimethylpentene-1	0,0091
diolefin	0,2214
1-methylcyclopentene	0,0556
benzene	0,0243
3,3-dimethylpentane	1,4512
5-methylhexene-1	0,1019
cyclohexane	0,4508
2-methyl-t-hexene-3	0,1046
diolefin (hexadiene)	0,0091
2-ethyl-3-methylbutene-1	0,05
4-methylhexene-1	0,1589
2-methylhexane	10,3521
2,3-dimethylpentane	4,1283
1,1-dimethylcyclopentane	0,187
cyclohexene	0,021
3-methylhexane	12,8678
3,4-dimethyl-c-pentene-2	0,1137
5-methyl-c-hexene-2	0,3986

1t,3-dimethylcyclopentane	0,3933
3-ethylpentane	1,3951
1t,2-dimethylcyclopentane	0,4903
heptene-1	0,0953
2,2,4-trimethylpentane	0,0476
2-ethylpentene-1	0,1218
3-methyl-c-hexene-3	0,1311
t-heptene-3	0,2105
n-heptane	8,8487
3-methyl-c-hexene-2	0,565
3-methyl-t-hexene-3	0,2188
t-heptene-2	0,1499
3-ethylpentene-2	0,1148
c-heptene-2	0,285
2,3-dimethylpentene-2	0,233
1c,2-dimethylcyclopentane	0,2058
methylcyclohexane	0,4795
2,2-dimethylhexane	0,2316
ethylcyclopentane	0,2164
2,5-dimethylhexane	0,2119
2,2,3-trimethylpentane	0,3731
1c,2t,4-trimethylcyclopentane	0,0544
3,3-dimethylhexane	0,1288
O38	0,0094
1t,2c,3-trimethylcyclopentane	0,0457
O39	0,0234
2,3,4-trimethylpentane	0,0659
I1	0,0126
2,3,3-trimethylpentane	0,0117
toluene	1,222
1,1,2-trimethylcyclopentane	0,2328
2,3-dimethylhexane	0,0513
2-methyl-3-ethylpentane	0,0259
O45	0,0145
2-methylheptane	0,6729
4-methylheptane	0,3289
3-methyl-3-ethylpentane	0,0654
3,4-dimethylhexane	0,0659
1c,2c,4-trimethylcyclopentane	0,0379
3-methylheptane	0,7789
1c,2t,3-trimethylcyclopentane	0,2724
1t,4-dimethylcyclohexane	0,0299
2,2,5-trimethylhexane	0,062
3t-ethylmethylcyclopentane	0,0367
2t-ethylmethylcyclopentane	0,041
*octene-1	0,0073
1,1-methylethylcyclopentane	0,0063
2,2,4-trimethylhexane	0,0126
1t,2-dimethylcyclohexane	0,0405
t-octene-4	0,0102
1c,2c,3-trimethylcyclopentane	0,0327
n-octane	0,6873

O50	0,0079
I2	0,0076
2,4,4-trimethylhexane	0,02
1,1,4-trimethylcyclohexane	0,0167
N4	0,0577
2,4-dimethylheptane	0,0228
ethylcyclohexane	0,0177
3,5-dimethylheptane	0,033
ethylbenzene	4,0807
1,3-dimethylbenzene	12,5758
1,4-dimethylbenzene	5,7733
I5	0,064
N15	0,0399
1c,2t,3-trimethylcyclohexane	0,0496
1c,2t,4c-trimethylcyclohexane	0,0115
1,1,2-trimethylcyclohexane	0,0745
1,2-dimethylbenzene	3,9637
nonene- 1	0,0125
n-nonane	0,0801
N26	0,1086
n-propylbenzene	0,0191
1,3-methylethylbenzene	0,0229
N33	0,0098

Total Unknowns	0,000
TOTAL	100,000

**DHA-GC Quantitative Results
(Individual Hydrocarbons)**

Sample No. 042

CAS No. 91995-68-5

Component	Concentration % (m/m)
benzene	33,1196
toluene	40,3882
ethylbenzene	4,8339
1,3-dimethylbenzene	11,6058
1,4-dimethylbenzene	4,8564
1,2-dimethylbenzene	5,1742
i-propylbenzene	0,022
Total Unknowns	0,000
TOTAL	100,000

**DHA-GC Quantitative Results
(Individual Hydrocarbons)**

Sample No. 045

CAS No. 68476-55-1

Component	Concentration % (m/m)
i-butane	0,4118
n-butane	0,4525
i-pentane	67,6598
n-pentane	30,9514
2,2-dimethylbutane	0,3948
cyclopentane	0,1298
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 046

CAS No. 64741-78-2

Component	Concentration % (m/m)
i-butane	0,002
n-butane	0,010
i-pentane	1,732
n-pentane	1,304
2-methylbutene-2	0,003
cyclopentadiene	0,042
cyclopentane	0,326
2,3-dimethylbutane	0,498
2-methylpentane	2,973
3-methylpentane	1,973
2-methylpentene-1	0,008
n-hexane	2,357
3,3-dimethylpentene-1	0,002
2,2-dimethylpentane	0,057
methylcyclopentane	4,407
2,4-dimethylpentane	0,418
cyclic diolefin or triolefin	0,013
4,4-dimethyl-c-pentene-2	0,004
benzene	0,554
2-methyl-c-hexene-3	0,050
cyclohexane	1,498
2-methylhexane	2,911
2,3-dimethylpentane	0,797
1,1-dimethylcyclopentane	0,286
3-methylhexane	2,864
1c,3-dimethylcyclopentane	2,157
1t,3-dimethylcyclopentane	1,751
3-ethylpentane	0,218
1t,2-dimethylcyclopentane	1,559
n-heptane	2,532
3-methyl-c-hexene-2	0,016
c-heptene-2	0,006
methylcyclohexane	7,284

1,1,3-trimethylcyclopentane	0,723
ethylcyclopentane	2,136
2,5-dimethylhexane	0,689
2,2,3-trimethylpentane	0,763
1c,2t,4-trimethylcyclopentane	1,398
1t,2c,3-trimethylcyclopentane	0,624
O39	0,024
O40	0,011
toluene	2,121
2,3-dimethylhexane	0,712
1,1,2-trimethylcyclopentane	0,076
O44	0,005
2-methylheptane	2,562
4-methylheptane	0,908
3-methyl-3-ethylpentane	0,097
3,4-dimethylhexane	0,731
1c,2c,4-trimethylcyclopentane	2,371
1c,3-dimethylcyclohexane	2,664
1c,2t,3-trimethylcyclopentane	0,766
1t,4-dimethylcyclohexane	1,165
1,1-dimethylcyclohexane	0,205
3c-ethylmethylcyclopentane	1,708
3t-ethylmethylcyclopentane	1,403
2t-ethylmethylcyclopentane	0,941
1,1-methylethylcyclopentane	0,152
2,2,4-trimethylhexane	0,828
1c,2c,3-trimethylcyclopentane	0,176
n-octane	4,976
I2	0,013
i-propylcyclopentane	0,588
N1	0,052
2,3,4-trimethylhexane	0,066
N2	0,558
N3	0,055
1c,2-dimethylcyclohexane	0,663
2,3,5-trimethylhexane	0,628
1,1,4-trimethylcyclohexane	0,122
N4	2,691
2,2,3-trimethylhexane	0,111
2,4-dimethylheptane	0,534

4,4-dimethylheptane	0,339
ethylcyclohexane	0,398
2,5-dimethylheptane	0,237
3,5-dimethylheptane	1,131
2,6-dimethylheptane	0,152
1,1,3-trimethylcyclohexane	0,415
N7	0,663
N8	0,432
ethylbenzene	1,050
N11	0,951
I3	0,155
N12	0,402
1,3-dimethylbenzene	1,216
1,4-dimethylbenzene	0,622
N14	0,344
I5	0,237
4-ethylheptane	0,100
4-methyloctane	0,249
2-methyloctane	0,407
N15	1,060
1c,2t,3-trimethylcyclohexane	1,500
3-methyloctane	0,333
1c,2t,4c-trimethylcyclohexane	0,638
1,1,2-trimethylcyclohexane	2,148
1,2-dimethylbenzene	1,056
I6	0,028
I7	0,055
N19	1,362
I8	0,381
N20	0,355
I9	0,050
i-butylcyclopentane	0,075
N21	0,392
N22	0,025
N23/c-nonene-2	0,038
t-nonene-3	0,086
I10	0,095
n-nonane	0,919
1,1-methylethylcyclohexane	0,365
N25	0,121

N27	0,225
i-propylcyclohexane	0,074
I12	0,052
2,2-dimethyloctane	0,034
2,4-dimethyloctane	0,050
N29	0,030
2,6-dimethyloctane	0,095
2,5-dimethyloctane	0,055
n-butylcyclopentane	0,052
I13	0,038
I14	0,015
N30	0,033
N31	0,024
n-propylbenzene	0,087
N32	0,007
1,3-methylethylbenzene	0,074
1,4-methylethylbenzene	0,028
1,3,5-trimethylbenzene	0,010
I17	0,004
1,2-methylethylbenzene	0,013
1,2,4-trimethylbenzene	0,010
n-tridecane	0,004
Total Unknowns	0,785
TOTAL	99,215

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 047

CAS No. 101795-01-1

Component	Concentration % (m/m)
i-butane	0,005
n-butane	0,109
2,2-dimethylpropane	0,006
i-pentane	23,894
1,4-pentadiene	0,023
n-pentane	22,706
t-pentene-2	0,006
2-methylbutene-2	0,012
2,2-dimethylbutane	0,902
cyclopentane	3,123
2,3-dimethylbutane	2,252
2-methylpentane	12,331
4-methyl-t-pentene-2	0,044
O8	0,009
3-methylpentane	6,981
2-methylpentene-1	0,021
n-hexane	10,592
c-hexene-3	0,018
2,2-dimethylpentane	0,190
methylcyclopentane	8,848
2,4-dimethylpentane	0,435
2,2,3-trimethylbutane	0,041
benzene	1,531
3,3-dimethylpentane	0,055
cyclohexane	3,719
2-methylhexane	0,476
2,3-dimethylpentane	0,204
1,1-dimethylcyclopentane	0,202
3-methylhexane	0,319
1c,3-dimethylcyclopentane	0,303
1t,3-dimethylcyclopentane	0,207
3-ethylpentane	0,019
1t,2-dimethylcyclopentane	0,252

n-heptane	0,063
methylcyclohexane	0,087
ethylcyclopentane	0,005
toluene	0,016
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 8

Component	Concentration % (m/m)
i-butane	0,325
butene-1	0,031
n-butane	2,5813
t-butene-2	0,1104
2,2-dimethylpropane	0,0106
c-butene-2	0,1478
3-methylbutene-1	0,1975
i-pentane	11,7736
pentene-1	0,3515
2-methylbutene-1	1,8095
n-pentane	5,1338
isoprene	0,0059
t-pentene-2	1,4071
3,3-dimethylbutene-1	0,0355
c-pentene-2	0,7273
2-methylbutene-2	4,9418
1t,3-pentadiene	0,0198
3-methylbutadiene-1,2	0,0025
2,2-dimethylbutane	0,023
cyclopentene	0,1043
4-methylpentene-1	0,0975
3-methylpentene-1	0,1429
cyclopentane	0,1409
2,3-dimethylbutane	0,1865
4-methyl-c-pentene-2	0,2971
2,3-dimethylbutene-1	0,1055
2-methylpentane	4,1938
4-methyl-t-pentene-2	0,3786
3-methylpentane	1,5599
2-methylpentene-1	0,5933
hexene-1	0,1258
n-hexane	2,5432
t-hexene-3	0,2442
c-hexene-3	0,0796
t-hexene-2	0,4889
2-methylpentene-2	1,1504
4-methylcyclopentene	0,1521
3-methyl-c-pentene-2	0,6836
3-methylcyclopentene	0,0939
c-hexene-2	0,2608
3,3-dimethylpentene-1	1,0942
4,4-dimethyl-t-pentene-2	0,0122
methylcyclopentane	0,8846

2,4-dimethylpentane	0,4906
2,3,3-trimethylbutene-1	0,0069
cyclic diolefin or triolefin	0,0053
2,2,3-trimethylbutane	0,0228
cyclic diolefin or triolefin	0,0045
O17	0,0141
3,4-dimethylpentene-1	0,0145
4,4-dimethyl-c-pentene-2	0,0421
2,4-dimethylpentene-1	0,0963
diolefin	0,0204
1-methylcyclopentene	0,7919
benzene	0,2372
3-ethylpentene-1	0,0274
3-methylhexene-1	0,0183
2-methyl-c-hexene-3	0,1533
5-methylhexene-1	0,02
cyclohexane	0,1597
2-methyl-t-hexene-3	0,0989
diolefin (hexadiene)	0,0273
2-ethyl-3-methylbutene-1	0,0305
4-methylhexene-1	0,087
4-methyl-t/c-hexene-2	0,204
2-methylhexane	1,7635
2,3-dimethylpentane	0,2249
5-methyl-t-hexene-2	0,1172
cyclohexene	0,0958
3-methylhexane	1,4793
3,4-dimethyl-c-pentene-2	0,0994
1c,3-dimethylcyclopentane	0,363
1t,3-dimethylcyclopentane	0,2925
3-ethylpentane	0,1884
1t,2-dimethylcyclopentane	0,1806
2,2,4-trimethylpentane	0,1329
heptene-1	0,0227
2-ethylpentene-1	0,1022
O25	0,0222
3-methyl-c-hexene-3	0,1479
t-heptene-3	0,7168
n-heptane	1,4586
3-methyl-c-hexene-2	0,5721
3-methyl-t-hexene-3	0,226
t-heptene-2	0,122
3-ethylpentene-2	0,1646
c-heptene-2	0,7179
2,3-dimethylpentene-2	0,2877
3-ethylcyclopentene	0,0284
O29	0,0556
1c,2-dimethylcyclopentane	0,1208
methylcyclohexane	0,3116
1,1,3-trimethylcyclopentane	0,151
O33	0,1328
O35	0,1195

ethylcyclopentane	0,2724
2,5-dimethylhexane	0,0264
2,2,3-trimethylpentane	0,1379
2,4-dimethylhexane	0,0396
O37	0,0145
1c,2t,4-trimethylcyclopentane	0,1803
O38	0,0291
1t,2c,3-trimethylcyclopentane	0,0619
O39	0,2367
2,3,4-trimethylpentane	0,0113
I1	0,0423
O40	1,0184
2,3,3-trimethylpentane	0,2231
toluene	2,3372
O41	0,1742
O42	0,0187
O43	0,0483
2,3-dimethylhexane	0,3714
1,1,2-trimethylcyclopentane	0,1568
O44	0,4459
O46	0,7818
2-methylheptane	0,3695
3,4-dimethylhexane	0,0543
1c,2c,4-trimethylcyclopentane	0,1359
1c,3-dimethylcyclohexane	0,0573
3-methylheptane	0,6573
3-ethylhexane	0,1732
1t,4-dimethylcyclohexane	0,04
1,3-octadiene	0,0165
O48	0,0309
1,1-dimethylcyclohexane	0,0049
2,2,5-trimethylhexane	0,0379
3c-ethylmethylcyclopentane	0,3764
2,6-dimethylheptene-1	0,0356
3t-ethylmethylcyclopentane	0,2472
2t-ethylmethylcyclopentane	0,091
*octene-1	0,0394
1,1-methylethylcyclopentane	0,0328
2,2,4-trimethylhexane	0,0684
t-octene-4	0,7785
3,5,5-trimethylhexene-1	0,0659
t-octene-3	0,3168
n-octane	0,6882
1c,4-dimethylcyclohexane	0,0621
t-octene-2	0,1821
O50	0,9174
2,4,4-trimethylhexane	0,1045
O52	0,0781
c-octene-2 (O53)	0,0922
N1	0,0571
2,2,3,4-tetramethylpentane	0,0107
2,3,4-trimethylhexane	0,0404

N2	0,2229
N3	0,2895
2,3,3-trimethylhexene-1	0,3454
2,3,5-trimethylhexane	0,1013
2,2-dimethylheptane	0,0336
N4	0,2642
ethylcyclohexane	0,2371
*1c,3c,5-trimethylcyclohexane	0,0117
3,3-dimethylheptane	0,1081
3,5-dimethylheptane	0,068
1,1,3-trimethylcyclohexane	0,0536
2,4-dimethylheptene-1	0,128
N8	0,0458
N10	0,0267
N11	0,0857
ethylbenzene	0,9036
I3	0,0993
2-methyloctene-1	0,019
I4	0,0745
1,3-dimethylbenzene	2,4744
1,4-dimethylbenzene	2,1095
N14	0,1094
I5	0,0802
4-ethylheptane	0,0866
4-methyloctane	0,1352
2-methyloctane	0,0725
3-ethylheptane	0,4345
3-methyloctane	0,0625
1c,2t,4c-trimethylcyclohexane	0,2851
1,1,2-trimethylcyclohexane	0,1869
1,2-dimethylbenzene	0,8059
I6	0,0681
N18	0,0405
N19	0,2125
I8	0,1093
N20	0,2005
I9	0,1222
N21	0,0298
t-7-methyloctene-3	0,1337
N22	0,0404
N23/c-nonene-2	0,0322
t-nonene-3	0,2143
I10	0,0122
n-nonane	0,1659
1,1-methylethylcyclohexane	0,0682
3,7-dimethyloctene-1	0,065
N25	0,0546
t-2,2,5,5-tetramethylhexene-3	0,2052
i-propylbenzene	0,0134
N26	0,0677
c-nonene-3	0,1185
I11	0,008

i-propylcyclohexane	0,0386
I12	0,0987
2,2-dimethyloctane	0,1106
2,4-dimethyloctane	0,24
2,6-dimethyloctane	0,1539
2,5-dimethyloctane	0,0898
n-butylcyclopentane	0,1285
N30	0,0409
I14	0,0123
3,3-dimethyloctane	0,0314
n-propylbenzene	0,096
3,6-dimethyloctane	0,3723
N32	0,1341
3-methyl-5-ethylheptane	0,0505
1,3-methylethylbenzene	2,1455
1,4-methylethylbenzene	1,828
N33	0,0471
1,3,5-trimethylbenzene	0,0591
2,3-dimethyloctane	0,0608
5-methylnonane	0,1563
I17	0,112
2-methylnonane	0,0575
1,2-methylethylbenzene	0,1386
3-ethyloctane	0,0325
N35	0,0237
3-methylnonane	0,1762
3-ethyl-2-methylheptene-2	0,0364
I18	0,0277
I19	0,0564
1,2,4-trimethylbenzene	1,2298
I20	0,0708
I22	0,0733
I21	0,0955
decene-1	0,1038
2,3-dimethyloctene-2	0,0629
i-butylbenzene	0,0967
I25	0,0587
sec-butylbenzene	0,0746
n-decane	0,0855
I26	0,0486
N38	0,0704
1,2,3-trimethylbenzene	0,0418
1,3-methyl-i-propylbenzene	0,0215
N39	0,0774
1,4-methyl-i-propylbenzene	0,1469
2-3-dihydroindene	0,0667
sec-butylcyclohexane	0,0345
I30	0,0253
1,2-methyl-i-propylbenzene	0,0302
3-ethylnonane	0,0394
N40	0,1205
I31	0,0214

I32	0,0341
1,3-diethylbenzene	0,025
1,3-methyl-n-propylbenzene	0,3406
1,4-diethylbenzene	0,6328
1,4-methyl-n-propylbenzene	0,8015
n-butylbenzene	0,0865
1,2-diethylbenzene	0,0405
t-decahydronaphthalene	0,0184
N41	0,0314
1,2-methyl-n-propylbenzene	0,0279
I35	0,0278
I36	0,0208
I37	0,0624
I38	0,0443
1,4-dimethyl-2-ethylbenzene	0,0864
1,3-dimethyl-4-ethylbenzene	0,1045
I40	0,0667
1,2-dimethyl-4-ethylbenzene	0,4824
I41	0,0297
1,3-dimethyl-2-ethylbenzene	0,0189
I42	0,0217
I43	0,0189
undecene-1	0,0447
1,4-methyl-t-butylbenzene	0,0301
1,2-dimethyl-3-ethylbenzene	0,034
1,2-ethyl-i-propylbenzene	0,0242
n-undecane	0,088
1,2,4,5-tetramethylbenzene	0,0661
1,2-methyl-n-butylbenzene	0,0361
1,2,3,5-tetramethylbenzene	0,0184
1,2-methyl-t-butylbenzene	0,0135
5-methylindan	0,3668
1,3-methyl-n-butylbenzene	0,2268
1,3-di-i-propylbenzene	0,0071
s-pentylbenzene	0,2222
n-pentylbenzene	0,1309
1t-M-2-(4-MP)cyclopentane	0,0215
1,2-di-i-propylbenzene	0,0164
1,4-di-i-propylbenzene	0,032
tetrahydronaphthalene	0,028
naphthalene	0,1506
1-t-butyl-3,5-dimethylbenzene	0,0098
1,4-ethyl-t-butylbenzene	0,0216
I45	0,1048
I46	0,0662
I47	0,0123
I48	0,0319
1,3-di-n-propylbenzene	0,0389
A5	0,0282
dodecene-1	0,0158
A6	0,0178
n-dodecane	0,0198

1,3,5-triethylbenzene	0,0189
1,2,4-triethylbenzene	0,044
1,4-methyl-n-pentylbenzene	0,0451
n-hexylbenzene	0,0425
I49	0,0474
1,2,3,4,5-pentamethylbenzene	0,0139
2-methylnaphthalene	0,0399
1-methylnaphthalene	0,0115
n-tridecane	0,0156

Total Unknowns	2,849
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 052

CAS No. 93572-36-2

Component	Concentration % (m/m)
n-pentane	0,009
2,2-dimethylbutane	0,163
cyclopentane	0,038
2,3-dimethylbutane	0,440
2-methylpentane	2,108
3-methylpentane	1,698
2-methylpentene-1	0,007
n-hexane	1,865
2,2-dimethylpentane	0,724
methylcyclopentane	0,213
2,4-dimethylpentane	0,768
2,2,3-trimethylbutane	0,118
benzene	8,700
3,3-dimethylpentane	0,640
cyclohexane	0,030
2-methylhexane	4,134
2,3-dimethylpentane	1,747
1,1-dimethylcyclopentane	0,050
3-methylhexane	5,288
3,4-dimethyl-c-pentene-2	0,021
1c,3-dimethylcyclopentane	0,124
1t,3-dimethylcyclopentane	0,096
3-ethylpentane	0,500
1t,2-dimethylcyclopentane	0,112
n-heptane	3,435
2,3-dimethylpentene-2	0,037
1c,2-dimethylcyclopentane	0,070
methylcyclohexane	0,085
2,2-dimethylhexane	0,099
ethylcyclopentane	0,041
2,5-dimethylhexane	0,089
2,4-dimethylhexane	0,143
1c,2t,4-trimethylcyclopentane	0,014

3,3-dimethylhexane	0,058
1t,2c,3-trimethylcyclopentane	0,008
2,3,4-trimethylpentane	0,007
I1	0,008
2,3,3-trimethylpentane	0,005
toluene	65,037
2,3-dimethylhexane	0,101
2-methyl-3-ethylpentane	0,021
2-methylheptane	0,274
4-methylheptane	0,135
3-methyl-3-ethylpentane	0,028
3,4-dimethylhexane	0,030
1c,2c,4-trimethylcyclopentane	0,008
3-methylheptane	0,325
3-ethylhexane	0,090
1t,4-dimethylcyclohexane	0,007
3c-ethylmethylcyclopentane	0,008
3t-ethylmethylcyclopentane	0,007
2t-ethylmethylcyclopentane	0,007
n-octane	0,219
ethylbenzene	0,012
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 053

CAS No. 92045-59-5

Component	Concentration % (m/m)
n-butane	0,0038
c-butene-2	0,0016
3-methylbutene-1	0,04
i-pentane	3,0169
pentene-1	0,1202
2-methylbutene-1	0,4488
n-pentane	1,2134
t-pentene-2	0,5794
3,3-dimethylbutene-1	0,0046
c-pentene-2	0,2734
2-methylbutene-2	1,3394
2,2-dimethylbutane	0,0237
cyclopentene	0,1024
4-methylpentene-1	0,0384
3-methylpentene-1	0,0732
cyclopentane	0,2057
2,3-dimethylbutane	0,5982
4-methyl-c-pentene-2	0,1336
2,3-dimethylbutene-1	0,0515
2-methylpentane	2,9909
4-methyl-t-pentene-2	0,237
3-methylpentane	2,1427
2-methylpentene-1	0,3374
hexene-1	0,0995
n-hexane	1,749
t-hexene-3	0,2636
c-hexene-3	0,0755
t-hexene-2	0,5408
2-methylpentene-2	0,7743
4-methylcyclopentene	0,1589
3-methyl-c-pentene-2	0,5725
3-methylcyclopentene	0,0898
c-hexene-2	0,2674
3,3-dimethylpentene-1	0,9558
3-methyl-t-pentene-2	0,0276
methylcyclopentane	2,5743
2,4-dimethylpentane	0,5569
2,3,3-trimethylbutene-1	0,2544
2,2,3-trimethylbutane	0,0394
3,4-dimethylpentene-1	0,0082
4,4-dimethyl-c-pentene-2	0,0222
2,4-dimethylpentene-1	0,0637
1-methylcyclopentene	1,086
benzene	1,0829

3-ethylpentene-1	0,0408
2-methyl-c-hexene-3	0,0445
5-methylhexene-1	0,1214
cyclohexane	0,3681
2-methyl-t-hexene-3	0,1363
diolefin (hexadiene)	0,0177
2-ethyl-3-methylbutene-1	0,0173
4-methylhexene-1	0,0679
4-methyl-t/c-hexene-2	0,2848
2-methylhexane	3,8159
2,3-dimethylpentane	1,1927
5-methyl-t-hexene-2	0,0723
cyclohexene	0,1528
3-methylhexane	3,6954
3,4-dimethyl-c-pentene-2	0,1226
1c,3-dimethylcyclopentane	1,4377
1t,3-dimethylcyclopentane	1,1786
3-ethylpentane	0,471
1t,2-dimethylcyclopentane	0,7332
2,2,4-trimethylpentane	0,1114
heptene-1	0,0432
2-ethylpentene-1	0,1593
O25	0,0043
3-methyl-c-hexene-3	0,2387
t-heptene-3	0,803
n-heptane	2,095
3-methyl-c-hexene-2	0,3519
2-methyl-2-hexene	0,6516
3-methyl-t-hexene-3	0,4084
t-heptene-2	0,2751
3-ethylpentene-2	0,2364
c-heptene-2	0,8705
2,3-dimethylpentene-2	0,3474
3-ethylcyclopentene	0,0124
O29	0,0424
1c,2-dimethylcyclopentane	0,8149
methylcyclohexane	1,5586
1,1,3-trimethylcyclopentane	0,2425
O33	0,0416
O35	0,0371
ethylcyclopentane	0,824
2,5-dimethylhexane	0,4429
2,2,3-trimethylpentane	0,7058
2,4-dimethylhexane	0,0202
1c,2t,4-trimethylcyclopentane	0,4677
3,3-dimethylhexane	0,0208
O38	0,0182
1t,2c,3-trimethylcyclopentane	0,2653
O39	0,0794
I1	0,0523
O40	1,0049
2,3,3-trimethylpentane	0,2286

toluene	8,0173
O41	0,087
O42	0,0239
O43	0,0757
2,3-dimethylhexane	0,5554
2-methyl-3-ethylpentane	0,0606
1,1,2-trimethylcyclopentane	0,1447
O44	0,3111
O46	1,8531
2-methylheptane	0,701
3-methyl-3-ethylpentane	0,0769
3,4-dimethylhexane	0,0788
1c,2c,4-trimethylcyclopentane	0,3897
3-methylheptane	1,8616
3-ethylhexane	0,7168
1c,2t,3-trimethylcyclopentane	0,3036
1t,4-dimethylcyclohexane	0,2444
1,3-octadiene	0,0289
O48	0,01
1,1-dimethylcyclohexane	0,0232
3c-ethylmethylcyclopentane	0,6681
2,6-dimethylheptene-1	0,0665
3t-ethylmethylcyclopentane	0,4572
2t-ethylmethylcyclopentane	0,216
*octene-1	0,1104
2,2,4-trimethylhexane	0,1399
t-octene-4	0,4672
3,5,5-trimethylhexene-1	0,1426
1c,2c,3-trimethylcyclopentane	0,399
1t,3-dimethylcyclohexane	0,1142
n-octane	1,7012
t-octene-2	0,1399
O50	0,4716
I2	0,3073
i-propylcyclopentane	0,0367
2,4,4-trimethylhexane	0,0146
O52	0,0475
c-octene-2 (O53)	0,0512
N1	0,0235
2,2,3,4-tetramethylpentane	0,0253
2,3,4-trimethylhexane	0,194
N2	0,052
N3	0,0821
2,3,3-trimethylhexene-1	0,0681
1c,2-dimethylcyclohexane	0,1376
2,3,5-trimethylhexane	0,228
2,2-dimethylheptane	0,0277
N4	0,4526
2,2,3-trimethylhexane	0,057
2,4-dimethylheptane	0,2042
4,4-dimethylheptane	0,0647
ethylcyclohexane	0,2135

2,5-dimethylheptane	0,0624
3,3-dimethylheptane	0,5268
3,5-dimethylheptane	0,082
2,6-dimethylheptane	0,0676
1,1,3-trimethylcyclohexane	0,1562
2,4-dimethylheptene-1	0,1374
N11	0,02
N10	0,051
ethylbenzene	2,1913
1c,2t,4t-trimethylcyclohexane	0,1081
I3	0,0846
2-methyloctene-1	0,0506
I4	0,0547
2-methyloctene-2	0,0482
N12	0,0367
1,3-dimethylbenzene	5,6935
1,4-dimethylbenzene	2,3082
N14	0,1444
I5	0,0598
4-ethylheptane	0,0638
4-methyloctane	0,1889
2-methyloctane	0,0375
N15	0,6039
3-ethylheptane	0,8804
1c,2t,3-trimethylcyclohexane	0,0774
3-methyloctane	0,0611
1c,2t,4c-trimethylcyclohexane	0,1916
1,1,2-trimethylcyclohexane	0,8897
1,2-dimethylbenzene	2,303
I7	0,0452
I6	0,032
N18	0,0551
nonene-1	0,12
I8	0,0829
N20	0,0702
I9	0,0529
i-butylcyclopentane	0,088
N21	0,0433
t-7-methyloctene-3	0,0669
N22	0,0865
N23/c-nonene-2	0,0499
t-nonene-3	0,0721
n-nonane	0,3219
1,1-methylethylcyclohexane	0,0639
3,7-dimethyloctene-1	0,0309
N25	0,0378
t-2,2,5,5-tetramethylhexene-3	0,0326
N26	0,0409
c-nonene-3	0,0673
i-propylcyclohexane	0,0349
I12	0,0305
2,2-dimethyloctane	0,0108

2,4-dimethyloctane	0,0761
N28	0,0135
N29	0,0546
2,6-dimethyloctane	0,0864
n-butylcyclopentane	0,0336
N30	0,0691
I14	0,0094
N31	0,082
n-propylbenzene	0,0288
3,6-dimethyloctane	0,2934
N32	0,022
3-methyl-5-ethylheptane	0,0139
1,3-methylethylbenzene	0,9212
1,4-methylethylbenzene	0,3361
1,3,5-trimethylbenzene	0,3703
2,3-dimethyloctane	0,0394
5-methylnonane	0,0486
I17	0,0889
1,2-methylethylbenzene	0,2305
2-methylnonane	0,1397
3-ethyloctane	0,016
N35	0,0081
3-methylnonane	0,1126
1,2,4-trimethylbenzene	0,9879
t-butylbenzene	0,0109
I20	0,0206
I22	0,0257
I21	0,0144
decene-1	0,0142
2,3-dimethyloctene-2	0,0179
i-butylbenzene	0,0283
sec-butylbenzene	0,0105
n-decane	0,0722
N38	0,0106
1,2,3-trimethylbenzene	0,176
N39	0,0184
I27	0,0148
I28	0,0133
2-3-dihydroindene	0,1804
I30	0,0173
1,2-methyl-i-propylbenzene	0,0166
I31	0,0257
1,3-diethylbenzene	0,0217
1,3-methyl-n-propylbenzene	0,0428
1,4-diethylbenzene	0,0978
n-butylbenzene	0,0703
1,2-diethylbenzene	0,0787
t-decahydronaphthalene	0,0142
1,2-methyl-n-propylbenzene	0,0092
I35	0,0268
I37	0,015
I38	0,0144

A3	0,0623
1,3-dimethyl-4-ethylbenzene	0,0575
I40	0,0161
1,2-dimethyl-4-ethylbenzene	0,1005
I41	0,0035
1,2-ethyl-i-propylbenzene	0,0108
n-undecane	0,0082
1,2-methyl-n-butylbenzene	0,0147
1,2,3,5-tetramethylbenzene	0,017
5-methylindan	0,0186
1,3-methyl-n-butylbenzene	0,0203
1,4-ethyl-t-butylbenzene	0,0045

Total Unknowns	0,157
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 054

CAS No. 92045-50-6

Component	Concentration % (m/m)
ethylbenzene	0,5861
1,3-dimethylbenzene	3,4946
1,4-dimethylbenzene	1,2414
N14	0,0328
4-ethylheptane	0,0942
N15	0,039
4-methyloctane	0,4021
2-methyloctane	0,713
1c,2t,3-trimethylcyclohexane	0,0767
3-ethylheptane	0,0914
3-methyloctane	0,204
1c,2t,4c-trimethylcyclohexane	0,8308
1,1,2-trimethylcyclohexane	0,1157
I6	0,0778
1,2-dimethylbenzene	3,8937
nonene- 1	0,2093
I8	0,2701
N20	0,1519
I9	0,2662
i-butylcyclopentane	0,0903
N21	0,3534
N22	0,2921
t-nonene-3	0,2257
I10	0,2151
n-nonane	0,7031
1,1-methylethylcyclohexane	0,2364
N25	0,4997
N26	0,1676
c-nonene-3	0,3101
i-propylcyclohexane	0,1458
I12	0,1427
2,2-dimethyloctane	0,0379
2,4-dimethyloctane	0,3047

N29	0,0659
2,6-dimethyloctane	0,2997
2,5-dimethyloctane	0,4938
n-butylcyclopentane	0,2039
I13	0,4677
I14	0,0927
3,3-dimethyloctane	0,5039
N31	0,2399
n-propylbenzene	1,7687
3,6-dimethyloctane	0,214
3-methyl-5-ethylheptane	0,2033
N32	0,1687
1,3-methylethylbenzene	7,1512
1,4-methylethylbenzene	2,7917
N33	0,0599
1,3,5-trimethylbenzene	3,4958
2,3-dimethyloctane	0,4167
5-methylnonane	0,6576
I17	0,8594
1,2-methylethylbenzene	2,4178
2-methylnonane	0,2151
3-ethyloctane	0,2174
N35	0,223
3-methylnonane	1,2299
N36	0,1543
I18	0,2055
I19	0,0258
t-butylbenzene	0,0531
1,2,4-trimethylbenzene	11,3829
i-butylcyclohexane	0,2577
I22	0,389
I23	0,127
N37	0,069
decene-1	0,2201
2,3-dimethyloctene-2	0,4811
I24	0,4866
I25	0,1251
sec-butylbenzene	0,1815
n-decane	0,8062
I26	0,0938

N38	0,2737
1,2,3-trimethylbenzene	2,726
N39	0,3444
1,4-methyl-i-propylbenzene	0,1311
I27	0,1994
I28	0,151
I29	0,1228
2-3-dihydroindene	2,6622
I30	0,3812
1,2-methyl-i-propylbenzene	0,3051
3-ethylnonane	0,2407
N40	0,6742
I31	0,2221
I32	0,133
1,3-diethylbenzene	0,3172
1,3-methyl-n-propylbenzene	1,0436
1,4-diethylbenzene	2,5067
n-butylbenzene	1,2101
1,3-dimethyl-5-ethylbenzene	0,7747
1,2-diethylbenzene	2,2851
I34	0,3244
t-decahydronaphthalene	0,2009
N41	0,3349
I35	0,874
I36	0,5681
I37	0,0762
I38	0,5232
A3	0,1313
1,4,dimethyl-2-ethylbenzene	0,6344
I39	1,6659
1,3-dimethyl-4-ethylbenzene	2,037
I40	0,7478
1,2-dimethyl-4-ethylbenzene	3,5992
I41	0,1698
1,3-dimethyl-2-ethylbenzene	0,2272
I42	0,1113
I43	0,0798
1,4-methyl-t-butylbenzene	0,164
1,2-dimethyl-3-ethylbenzene	0,3049
1,2-ethyl-i-propylbenzene	0,7157

n-undecane	0,6677
1,4-ethyl-i-propylbenzene	0,1022
1,2-methyl-n-butylbenzene	1,0555
1,2,3,5-tetramethylbenzene	1,192
1,2-methyl-t-butylbenzene	0,1661
5-methylindan	1,515
I43	0,0576
4-methylindan	0,2683
1,2-ethyl-n-propylbenzene	0,1041
2-methylindan	0,589
1,3-di-i-propylbenzene	1,1342
s-pentylbenzene	0,7021
1t-M-2-(4-MP)cyclopentane	0,43
1,2-di-i-propylbenzene	0,1531
1,4-di-i-propylbenzene	0,2031
tetrahydronaphthalene	0,1623
1-t-butyl-3,5-dimethylbenzene	0,1714
naphthalene	0,5313
1,4-ethyl-t-butylbenzene	0,1219
I45	0,0909
I46	0,267
I47	0,1187
I48	0,1278
1,3-di-n-propylbenzene	0,2307
A5	0,0703
A6	0,0919
1,2,4-triethylbenzene	0,0337
1,4-methyl-n-pentylbenzene	0,0622
n-hexylbenzene	0,027
1,2,3,4,5-pentamethylbenzene	0,0189
2-methylnaphthalene	0,0655
Total Unknowns	3,242
TOTAL	96,758

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 055

CAS No. 64741-84-0

Component	Concentration % (m/m)
propane	0,0046
i-butane	0,7147
butene-1	0,0085
n-butane	1,6357
t-butene-2	0,0031
c-butene-2	0,0031
1,2-butadiene	0,0029
i-pentane	4,5563
O2	0,0089
butyne-2	0,0049
2-methylbutene-1	0,0197
n-pentane	2,6183
t-pentene-2	0,0137
3,3-dimethylbutene-1	0,0032
c-pentene-2	0,0078
2-methylbutene-2	0,0435
2,2-dimethylbutane	2,7611
cyclopentene	0,0043
4-methylpentene-1	0,0066
3-methylpentene-1	0,0107
cyclopentane	0,3004
2,3-dimethylbutane	2,3154
4-methyl-c-pentene-2	0,0195
2-methylpentane	11,8872
2,3-dimethylbutene-1	0,0676
4-methyl-t-pentene-2	0,0076
3-methylpentane	9,1532
2-methylpentene-1	0,0235
hexene-1	0,0366
O11	0,0134
n-hexane	12,9614
t-hexene-3	0,0362
c-hexene-3	0,0183
t-hexene-2	0,0531
2-methylpentene-2	0,0656
4-methylcyclopentene	0,0206
3-methyl-c-pentene-2	0,0423
3-methylcyclopentene	0,0119
c-hexene-2	0,0259
3,3-dimethylpentene-1	0,0624
2,2-dimethylpentane	1,4167
methylcyclopentane	4,85
2,4-dimethylpentane	1,3228

2,2,3-trimethylbutane	0,2278
cyclic diolefin or triolefin	0,0031
O17	0,0015
4,4-dimethyl-c-pentene-2	0,0109
2,4-dimethylpentene-1	0,0022
diolefin	0,0782
benzene	0,0715
3-methylhexene-1	0,0062
3,3-dimethylpentane	1,2286
2-methyl-c-hexene-3	0,0224
cyclohexane	0,5282
2-methyl-t-hexene-3	0,0205
2-ethyl-3-methylbutene-1	0,0091
4-methylhexene-1	0,0286
2-methylhexane	8,698
2,3-dimethylpentane	3,2745
1,1-dimethylcyclopentane	0,1927
cyclohexene	0,0149
3-methylhexane	10,6828
1,6-heptadiene	0,0281
3,4-dimethyl-c-pentene-2	0,0077
1c,3-dimethylcyclopentane	0,3165
1t,3-dimethylcyclopentane	0,3175
3-ethylpentane	1,0212
1t,2-dimethylcyclopentane	0,4176
2,2,4-trimethylpentane	0,0107
2-ethylpentene-1	0,0241
3-methyl-c-hexene-3	0,0242
t-heptene-3	0,0419
n-heptane	7,9021
3-methyl-c-hexene-2	0,1365
3-methyl-t-hexene-3	0,0518
t-heptene-2	0,0374
3-ethylpentene-2	0,0288
c-heptene-2	0,0618
2,3-dimethylpentene-2	0,0489
1c,2-dimethylcyclopentane	0,1021
methylcyclohexane	0,3965
2,2-dimethylhexane	0,1284
2,5-dimethylhexane	0,2485
ethylcyclopentane	0,1542
2,2,3-trimethylpentane	0,2491
1c,2t,4-trimethylcyclopentane	0,0214
3,3-dimethylhexane	0,1054
1t,2c,3-trimethylcyclopentane	0,0197
2,3,4-trimethylpentane	0,0135
I1	0,0238
O40	0,0048
2,3,3-trimethylpentane	0,0107
toluene	1,0327
2,3-dimethylhexane	0,1944
2-methyl-3-ethylpentane	0,0386

1,1,2-trimethylcyclopentane	0,0116
O44	0,0081
2-methylheptane	0,5951
4-methylheptane	0,3065
3-methyl-3-ethylpentane	0,0595
3,4-dimethylhexane	0,0562
3-methylheptane	0,7361
3-ethylhexane	0,2018
1t,4-dimethylcyclohexane	0,0094
1,1-dimethylcyclohexane	0,0043
2,2,5-trimethylhexane	0,0047
3c-ethylmethylcyclopentane	0,0238
3t-ethylmethylcyclopentane	0,017
2t-ethylmethylcyclopentane	0,0173
octene-1	0,0034
1,1-methylethylcyclopentane	0,0054
2,2,4-trimethylhexane	0,0053
1t,2-dimethylcyclohexane	0,0114
1c,2c,3-trimethylcyclopentane	0,0148
n-octane	0,5608
I2	0,0042
i-propylcyclopentane	0,0076
N2	0,0039
N3	0,0064
2,3,5-trimethylhexane	0,009
2,2,3-trimethylhexane	0,0086
2,4-dimethylheptane	0,0053
3,5-dimethylheptane	0,014
2,6-dimethylheptane	0,0063
ethylbenzene	0,0806
1,3-dimethylbenzene	0,5373
1,4-dimethylbenzene	0,2629
4-methyloctane	0,0036
2-methyloctane	0,0129
3-ethylheptane	0,011
3-methyloctane	0,0143
1,2-dimethylbenzene	0,188
n-nonane	0,0093
3,6-dimethyloctane	0,0131
1,3-methylethylbenzene	0,0495
1,4-methylethylbenzene	0,0252
1,3,5-trimethylbenzene	0,0321
1,2-methylethylbenzene	0,0177
1,2,4-trimethylbenzene	0,1096
1,2,3-trimethylbenzene	0,0292
1,3-methyl-i-propylbenzene	0,0039
2-3-dihydroindene	0,0035
1,3-methyl-n-propylbenzene	0,0023
1,4-diethylbenzene	0,0111
1,4-methyl-n-propylbenzene	0,0064
n-butylbenzene	0,003
1,3-dimethyl-5-ethylbenzene	0,0109

I35	0,0041
1,3-dimethyl-4-ethylbenzene	0,0079
I39	0,01
1,2-dimethyl-4-ethylbenzene	0,0181
1,2-dimethyl-3-ethylbenzene	0,0054
1,2-methyl-n-butylbenzene	0,0149
1,2,3,5-tetramethylbenzene	0,0198
4-methylindan	0,0054
1,3-methyl-n-butylbenzene	0,0058
n-pentylbenzene	0,0075
naphthalene	0,0059
I46	0,0018
A5	0,0029
1,4-methyl-n-pentylbenzene	0,0036
1,2,3,4,5-pentamethylbenzene	0,0023
2-methylnaphthalene	0,0172
1-methylnaphthalene	0,0089

Total Unknowns	0,238
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 056

CAS No. 68603-08-7

Component	Concentration % (m/m)
benzene	29,0323
1c,3-dimethylcyclopentane	0,0284
toluene	63,5227
ethylbenzene	0,6351
1,3-dimethylbenzene	3,1914
1,4-dimethylbenzene	1,4881
1,2-dimethylbenzene	1,7985
i-propylbenzene	0,0114
n-propylbenzene	0,0203
1,3-methylethylbenzene	0,0684
1,4-methylethylbenzene	0,0333
1,3,5-trimethylbenzene	0,0307
1,2-methylethylbenzene	0,0238
1,2,4-trimethylbenzene	0,1035
1,2,3-trimethylbenzene	0,0122
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 057

CAS No. 68606-11-1

Component	Concentration % (m/m)
ethane	0,0043
propylene	0,0046
propane	0,0302
i-butane	0,1203
butene-1	0,0043
n-butane	2,0181
vinyl acetylene	0,0046
2,2-dimethylpropane	0,0031
t-butene-2	0,0322
i-pentane	8,6689
O2	0,0137
butyne-2	0,0027
pentene-1	0,0083
2-methylbutene-1	0,0022
n-pentane	13,5504
t-pentene-2	0,0049
c-pentene-2	0,0033
2-methylbutene-2	0,0048
2,2-dimethylbutane	0,3021
O6	0,0115
cyclopentene	0,0028
cyclopentane	1,2165
2,3-dimethylbutane	1,2618
2-methylpentane	7,8141
4-methyl-t-pentene-2	0,0076
3-methylpentane	5,6115
2-methylpentene-1	0,0197
hexene-1	0,0032
2-ethylbutene-1	0,0038
n-hexane	14,6137
t-hexene-3	0,0224
c-hexene-3	0,0111
t-hexene-2	0,0129
2-methylpentene-2	0,0037
4-methylcyclopentene	0,0039
3-methylcyclopentene	0,0049
3,3-dimethylpentene-1	0,0037
2,2-dimethylpentane	0,1756
methylcyclopentane	4,826
2,4-dimethylpentane	0,4162
2,2,3-trimethylbutane	0,0389
2,4-dimethylpentene-1	0,0026
benzene	1,2875
3,3-dimethylpentane	0,1345

cyclohexane	3,9883
2-methylhexane	2,7287
2,3-dimethylpentane	1,2518
1,1-dimethylcyclopentane	0,3774
3-methylhexane	3,5394
1c,3-dimethylcyclopentane	0,9132
1t,3-dimethylcyclopentane	0,8034
3-ethylpentane	0,3531
1t,2-dimethylcyclopentane	1,6163
n-heptane	7,4567
3-methyl-c-hexene-2	0,0301
t-heptene-2	0,0087
1c,2-dimethylcyclopentane	0,1297
methylcyclohexane	4,3972
2,2-dimethylhexane	0,2923
ethylcyclopentane	0,5669
2,5-dimethylhexane	0,2032
2,2,3-trimethylpentane	0,2452
1c,2t,4-trimethylcyclopentane	0,3286
3,3-dimethylhexane	0,0573
1t,2c,3-trimethylcyclopentane	0,4039
2,3,4-trimethylpentane	0,041
2,3,3-trimethylpentane	0,007
toluene	1,8721
2,3-dimethylhexane	0,2574
2-methyl-3-ethylpentane	0,1267
2-methylheptane	1,1275
4-methylheptane	0,3183
3-methyl-3-ethylpentane	0,0383
3,4-dimethylhexane	0,0502
1c,2c,4-trimethylcyclopentane	0,0346
3-methylheptane	0,5988
1c,2t,3-trimethylcyclopentane	0,5864
3-ethylhexane	0,0689
1t,4-dimethylcyclohexane	0,2014
1,1-dimethylcyclohexane	0,0908
2,2,5-trimethylhexane	0,1089
3c-ethylmethylcyclopentane	0,0909
3t-ethylmethylcyclopentane	0,2228
1,1-methylethylcyclopentane	0,017
1t,2-dimethylcyclohexane	0,1866
n-octane	1,3168
i-propylcyclopentane	0,0254
N2	0,016
1c,2-dimethylcyclohexane	0,0202
2,3,5-trimethylhexane	0,0164
N4	0,1583
2,4-dimethylheptane	0,0363
ethylcyclohexane	0,0453
3,5-dimethylheptane	0,0155
ethylbenzene	0,101
1,3-dimethylbenzene	0,1096

1,4-dimethylbenzene	0,051
N15	0,0051
3-ethylheptane	0,0063
3-methyloctane	0,0063
1,2-dimethylbenzene	0,0289
n-nonane	0,006

Total Unknowns	0,005
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 068

CAS No. 64741-74-8

Component	Concentration % (m/m)
propylene	0,098
propane	0,474
i-butane	0,450
butene-1	0,463
isobutylene	0,749
1,3-butadiene	0,024
n-butane	3,055
vinyl acetylene	0,006
2,2-dimethylpropane	0,429
t-butene-2	0,011
c-butene-2	0,350
1,2-butadiene	0,340
i-pentane	2,055
1,4-pentadiene	0,010
butyne-2	1,682
pentene-1	0,046
2-methylbutene-1	0,846
n-pentane	5,010
isoprene	0,046
t-pentene-2	0,897
3,3-dimethylbutene-1	0,006
c-pentene-2	0,458
2-methylbutene-2	1,119
1t,3-pentadiene	0,082
3-methylbutadiene-1,2	0,017
cyclopentadiene	0,041
O5	0,030
cyclopentene	0,278
4-methylpentene-1	0,416
3-methylpentene-1	0,212
cyclopentane	0,492
2,3-dimethylbutane	0,121
4-methyl-c-pentene-2	0,105

2,3-dimethylbutene-1	0,052
2-methylpentane	1,543
O8	0,204
4-methyl-t-pentene-2	0,018
2-methyl-1,4-pentadiene	0,005
1,5-hexadiene	0,663
2-methylpentene-1	0,471
hexene-1	1,646
1c/t,4-hexadiene	0,033
n-hexane	4,127
t-hexene-3	0,177
c-hexene-3	0,057
t-hexene-2	0,486
2-methylpentene-2	0,558
4-methylcyclopentene	0,199
3-methyl-c-pentene-2	0,170
3-methylcyclopentene	0,095
O13	0,002
c-hexene-2	0,254
O14	0,005
3,3-dimethylpentene-1	0,270
3-methyl-t-pentene-2	0,018
4,4-dimethyl-t-pentene-2	0,013
methylcyclopentane	1,073
2,4-dimethylpentane	0,043
2,3,3-trimethylbutene-1	0,070
cyclic diolefin or triolefin	0,042
2,2,3-trimethylbutane	0,044
cyclic diolefin or triolefin	0,038
O17	0,034
3,4-dimethylpentene-1	0,047
4,4-dimethyl-c-pentene-2	0,020
2,4-dimethylpentene-1	0,045
diolefin	0,083
1-methylcyclopentene	0,812
benzene	0,299
3-ethylpentene-1	0,013
2-methyl-c-hexene-3	0,131
5-methylhexene-1	0,130
cyclohexane	0,363

2-methyl-t-hexene-3	0,046
diolefin (hexadiene)	0,013
2-ethyl-3-methylbutene-1	0,053
4-methylhexene-1	0,330
4-methyl-t/c-hexene-2	0,157
2-methylhexane	0,703
5-methyl-t-hexene-2	0,358
1,1-dimethylcyclopentane	0,046
cyclohexene	0,006
1,6-heptadiene	0,863
3,4-dimethyl-c-pentene-2	0,005
5-methyl-c-hexene-2	0,049
1c,3-dimethylcyclopentane	0,207
1t,3-dimethylcyclopentane	0,172
1t,2-dimethylcyclopentane	0,287
heptene-1	0,298
2-ethylpentene-1	0,037
1,5-heptadiene	1,484
3-methyl-c-hexene-3	0,074
t-heptene-3	0,537
n-heptane	4,487
2-methyl-2-hexene	0,146
3-methyl-c-hexene-2	0,182
3-methyl-t-hexene-3	0,110
t-heptene-2	0,416
3-ethylpentene-2	0,096
c-heptene-2	0,397
2,3-dimethylpentene-2	0,287
3-ethylcyclopentene	0,069
O29	0,076
1c,2-dimethylcyclopentane	0,149
methylcyclohexane	0,758
1,1,3-trimethylcyclopentane	0,035
O32	0,003
O33	0,014
O34	0,006
O35	0,007
O36	0,502
ethylcyclopentane	0,056
2,5-dimethylhexane	0,234

2,2,3-trimethylpentane	0,174
2,4-dimethylhexane	0,104
O37	0,116
1c,2t,4-trimethylcyclopentane	0,004
3,3-dimethylhexane	0,034
O38	0,029
1t,2c,3-trimethylcyclopentane	0,080
O39	0,065
2,3,4-trimethylpentane	0,101
I1	0,072
O40	0,660
2,3,3-trimethylpentane	0,347
toluene	0,929
O41	0,107
O42	0,205
O43	0,211
2,3-dimethylhexane	0,278
2-methyl-3-ethylpentane	0,167
1,1,2-trimethylcyclopentane	0,122
O44	0,426
O45	1,614
O46	0,359
2-methylheptane	0,051
*2-ethylhexene-1	0,061
1c,2c,4-trimethylcyclopentane	0,281
3-methylheptane	0,551
1c,2t,3-trimethylcyclopentane	0,419
3-ethylhexane	0,093
1t,4-dimethylcyclohexane	0,108
1,3-octadiene	0,036
O48	0,080
2,2,5-trimethylhexane	0,453
3c-ethylmethylcyclopentane	0,216
2,6-dimethylheptene-1	0,203
*octene-1	1,599
1,1-methylethylcyclopentane	0,069
1t,2-dimethylcyclohexane	0,055
t-octene-4	0,319
3,5,5-trimethylhexene-1	0,102
t-octene-3	0,371

n-octane	4,440
1c,4-dimethylcyclohexane	0,023
3,3-dimethylheptene-1	0,441
t-octene-2	0,486
O50	0,157
2,4,4-trimethylhexane	0,104
O52	0,031
c-octene-2 (O53)	0,212
N1	0,093
2,2,3,4-tetramethylpentane	0,151
2,3,4-trimethylhexane	0,145
N2	0,161
N3	0,163
2,3,3-trimethylhexene-1	0,098
1c,2-dimethylcyclohexane	0,078
2,3,5-trimethylhexane	0,084
2,2-dimethylheptane	0,023
N4	0,707
2,2,3-trimethylhexane	0,401
ethylcyclohexane	0,749
*1c,3c,5-trimethylcyclohexane	0,053
2,5-dimethylheptane	0,046
3,3-dimethylheptane	0,188
3,5-dimethylheptane	0,114
1,1,3-trimethylcyclohexane	0,071
2,4-dimethylheptene-1	0,194
N8	0,057
N11	0,034
1c,2t,4t-trimethylcyclohexane	0,064
ethylbenzene	0,641
2-methyloctene-1	0,584
2-methyloctene-2	0,062
N12	0,025
N13	0,084
1,3-dimethylbenzene	0,279
1,4-dimethylbenzene	1,217
2,3-dimethylheptane	0,388
3,5-dimethylheptane*	0,438
3,4-dimethylheptane*	0,117
N14	0,100

4-ethylheptane	0,241
4-methyloctane	0,310
2-methyloctane	0,147
N15	0,399
1c,2t,3-trimethylcyclohexane	0,639
3-ethylheptane	0,076
3-methyloctane	0,145
1c,2t,4c-trimethylcyclohexane	0,286
1,1,2-trimethylcyclohexane	0,989
1,2-dimethylbenzene	0,809
I6	0,123
nonene-1	0,486
N20	0,512
i-butylcyclopentane	0,147
N21	0,085
t-7-methyloctene-3	1,389
N22	0,274
t-nonene-3	0,249
I10	0,264
n-nonane	3,948
3,7-dimethyloctene-1	0,421
t-2,2,5,5-tetramethylhexene-3	0,176
i-propylbenzene	0,247
c-nonene-3	0,419
i-propylcyclohexane	0,158
I12	0,182
2,2-dimethyloctane	0,057
2,4-dimethyloctane	0,311
N28	0,086
N29	0,338
2,6-dimethyloctane	0,166
I14	0,081
3,3-dimethyloctane	0,041
n-propylbenzene	0,286
3,6-dimethyloctane	0,436
3-methyl-5-ethylheptane	0,083
1,3-methylethylbenzene	0,493
1,4-methylethylbenzene	0,214
1,3,5-trimethylbenzene	0,445
2,3-dimethyloctane	0,143

I15	0,087
I16	0,367
5-methylnonane	0,597
1,2-methylethylbenzene	0,312
3-ethyloctane	0,073
3-ethyl-2-methylheptene-2	0,330
I18	0,046
I19	0,036
t-butylbenzene	0,073
1,2,4-trimethylbenzene	0,441
I20	0,168
i-butylcyclohexane	0,158
I21	0,101
decene-1	0,570
2,3-dimethyloctene-2	0,108
I24	0,059
i-butylbenzene	0,199
n-decane	1,224
1,2,3-trimethylbenzene	0,223
1,3-methyl-i-propylbenzene	0,058
1,4-methyl-i-propylbenzene	0,073
I28	0,116
2-3-dihydroindene	0,066
I30	0,043
1,2-methyl-i-propylbenzene	0,135
3-ethylnonane	0,059
I31	0,100
I32	0,013
1,3-diethylbenzene	0,035
1,3-methyl-n-propylbenzene	0,079
I33	0,069
1,4-diethylbenzene	0,045
1,4-methyl-n-propylbenzene	0,038
n-butylbenzene	0,035
1,3-dimethyl-5-ethylbenzene	0,029
1,2-diethylbenzene	0,071
I34	0,033
I37	0,067
I38	0,044
A3	0,026

1,2-dimethyl-4-ethylbenzene	0,061
I41	0,018
1,3-dimethyl-2-ethylbenzene	0,006
I42	0,010
I43	0,013
undecene-1	0,059
1,4-methyl-t-butylbenzene	0,016
1,2-dimethyl-3-ethylbenzene	0,026
n-undecane	0,128
1,4-ethyl-i-propylbenzene	0,012
1,2-methyl-n-butylbenzene	0,016
1,2,3,5-tetramethylbenzene	0,010
2-methylindan	0,010
1,3-methyl-n-butylbenzene	0,015
s-pentylbenzene	0,011
dodecene-1	0,006
n-dodecane	0,016
1,2,4-triethylbenzene	0,005
n-tridecane	0,005
Total Unknowns	3,561
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 077

CAS No. 85116-59-2

Component	Concentration % (m/m)
n-butane	0,0059
t-butene-2	0,0045
c-butene-2	0,003
1,2-butadiene	0,0021
i-pentane	0,2148
butyne-2	0,0055
2-methylbutene-1	0,0264
n-pentane	0,0488
t-pentene-2	0,0453
3,3-dimethylbutene-1	0,0184
2-methylbutene-2	0,0613
2,2-dimethylbutane	0,4369
cyclopentene	0,0088
4-methylpentene-1	0,0039
3-methylpentene-1	0,0064
cyclopentane	0,1233
2,3-dimethylbutane	1,5358
4-methyl-c-pentene-2	0,016
2-methylpentane	8,8297
2,3-dimethylbutene-1	0,0663
4-methyl-t-pentene-2	0,0071
3-methylpentane	8,6395
2-methylpentene-1	0,0237
hexene-1	0,0516
O11	0,0182
n-hexane	14,2721
t-hexene-3	0,0534
c-hexene-3	0,0234
t-hexene-2	0,0867
2-methylpentene-2	0,1391
3-methyl-c-pentene-2	0,0823
3-methylcyclopentene	0,0082
c-hexene-2	0,0444
3,3-dimethylpentene-1	0,1423
2,2-dimethylpentane	1,7391
methylcyclopentane	1,7479
2,4-dimethylpentane	1,9886
2,2,3-trimethylbutane	0,2904
cyclic diolefin or triolefin	0,0051
4,4-dimethyl-c-pentene-2	0,0218
2,4-dimethylpentene-1	0,0651
benzene	1,1944
3-methylhexene-1	0,0203
3,3-dimethylpentane	1,6713

2-methyl-c-hexene-3	0,0446
5-methylhexene-1	0,0138
cyclohexane	0,2211
2-methyl-t-hexene-3	0,0365
2-ethyl-3-methylbutene-1	0,0144
2-methylhexane	11,3502
2,3-dimethylpentane	4,3017
5-methyl-t-hexene-2	0,1294
cyclohexene	0,0125
3-methylhexane	13,4909
3,4-dimethyl-c-pentene-2	0,0453
5-methyl-c-hexene-2	0,0092
1c,3-dimethylcyclopentane	0,2209
1t,3-dimethylcyclopentane	0,2134
3-ethylpentane	1,2583
1t,2-dimethylcyclopentane	0,2642
heptene-1	0,0958
2-ethylpentene-1	0,037
3-methyl-c-hexene-3	0,0388
t-heptene-3	0,0594
n-heptane	8,5348
3-methyl-c-hexene-2	0,1987
3-methyl-t-hexene-3	0,0764
t-heptene-2	0,0505
3-ethylpentene-2	0,0398
c-heptene-2	0,0858
2,3-dimethylpentene-2	0,0739
1c,2-dimethylcyclopentane	0,0668
methylcyclohexane	0,1567
2,2-dimethylhexane	0,4217
ethylcyclopentane	0,0853
2,4-dimethylhexane	0,5081
2,2,3-trimethylpentane	0,8084
1c,2t,4-trimethylcyclopentane	0,0414
3,3-dimethylhexane	0,279
1t,2c,3-trimethylcyclopentane	0,0382
2,3,4-trimethylpentane	0,0426
I1	0,0203
2,3,3-trimethylpentane	0,0299
toluene	7,4078
O43	0,0221
2,3-dimethylhexane	0,4123
2-methyl-3-ethylpentane	0,0794
1,1,2-trimethylcyclopentane	0,0225
O44	0,008
2-methylheptane	1,1017
4-methylheptane	0,5454
3,4-dimethylhexane	0,1088
3-methyl-3-ethylpentane	0,095
1c,2c,4-trimethylcyclopentane	0,0204
3-methylheptane	1,2031
3-ethylhexane	0,3163

1t,4-dimethylcyclohexane	0,0116
2,2,5-trimethylhexane	0,0116
3c-ethylmethylcyclopentane	0,0222
2,6-dimethylheptene-1	0,0145
3t-ethylmethylcyclopentane	0,0135
1t,2-dimethylcyclohexane	0,0091
1c,2c,3-trimethylcyclopentane	0,0126
n-octane	0,4663
2,3,5-trimethylhexane	0,0074
3,5-dimethylheptane	0,0103
ethylbenzene	0,1304
1,3-dimethylbenzene	0,2078
1,4-dimethylbenzene	0,1014
3-ethylheptane	0,0076
3-methyloctane	0,0072
1,2-dimethylbenzene	0,0699
n-nonane	0,0063
3,6-dimethyloctane	0,0079
1,3-methylethylbenzene	0,0328
1,4-methylethylbenzene	0,0125
1,3,5-trimethylbenzene	0,0166
I17	0,0044
1,2-methylethylbenzene	0,0151
3-methylnonane	0,005
1,2,4-trimethylbenzene	0,0528
n-decane	0,0047
1,2,3-trimethylbenzene	0,0124
2-3-dihydroindene	0,0118
1,3-methyl-n-propylbenzene	0,0046
I33	0,0105
1,4-methyl-n-propylbenzene	0,0044
1,3-dimethyl-5-ethylbenzene	0,01
I35	0,0024
I37	0,003
I38	0,0022
1,3-dimethyl-4-ethylbenzene	0,0098
I39	0,0115
1,2-dimethyl-4-ethylbenzene	0,0201
1,2-dimethyl-3-ethylbenzene	0,0034
n-undecane	0,0042
1,2-methyl-n-butylbenzene	0,0066
1,2,3,5-tetramethylbenzene	0,0085
4-methylindan	0,0135
1,3-methyl-n-butylbenzene	0,0141
n-pentylbenzene	0,006
naphthalene	0,0087
I46	0,0067
A5	0,0067

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 094

CAS No. 91995-18-5

Component	Concentration % (m/m)
toluene	0,0207
n-octane	0,0052
N3	0,0061
2,2-dimethylheptane	0,0088
N4	0,0066
2,4-dimethylheptane	0,0089
3,5-dimethylheptane	0,0365
2,6-dimethylheptane	0,0229
ethylbenzene	18,6935
2-methyloctene-1	0,0548
1,3-dimethylbenzene	44,485
1,4-dimethylbenzene	13,5455
3,4-dimethylheptane*	0,0903
I5	0,0393
4-ethylheptane	0,0207
4-methyloctane	0,0991
2-methyloctane	0,1129
3-methyloctane	0,0291
I6	0,2134
1,2-dimethylbenzene	22,3459
n-nonane	0,128
N27	0,0117
I20	0,0149
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 095

CAS No. 93165-19-6

Component	Concentration % (m/m)
i-pentane	0,020
n-pentane	0,157
2,2-dimethylbutane	0,155
cyclopentane	4,827
2,3-dimethylbutane	1,159
2-methylpentane	7,188
O8	0,008
3-methylpentane	6,512
2-methylpentene-1	0,022
n-hexane	10,417
2,2-dimethylpentane	1,222
methylcyclopentane	11,600
2,4-dimethylpentane	1,579
2,2,3-trimethylbutane	0,169
benzene	4,996
3,3-dimethylpentane	1,078
cyclohexane	2,532
2-methylhexane	7,833
2,3-dimethylpentane	3,030
1,1-dimethylcyclopentane	0,216
cyclohexene	0,010
3-methylhexane	9,277
1c,3-dimethylcyclopentane	0,686
1t,3-dimethylcyclopentane	0,503
3-ethylpentane	0,839
1t,2-dimethylcyclopentane	0,639
2,2,4-trimethylpentane	0,013
n-heptane	5,717
1c,2-dimethylcyclopentane	0,296
methylcyclohexane	1,995
2,2-dimethylhexane	0,329
ethylcyclopentane	1,227
2,5-dimethylhexane	0,356

2,4-dimethylhexane	0,612
1c,2t,4-trimethylcyclopentane	0,100
3,3-dimethylhexane	0,206
O38	0,019
1t,2c,3-trimethylcyclopentane	0,064
2,3,4-trimethylpentane	0,028
2,3,3-trimethylpentane	0,016
toluene	6,193
2,3-dimethylhexane	0,420
2-methyl-3-ethylpentane	0,080
1,1,2-trimethylcyclopentane	0,019
2-methylheptane	1,278
4-methylheptane	0,644
3-methyl-3-ethylpentane	0,123
3,4-dimethylhexane	0,116
1c,2c,4-trimethylcyclopentane	0,050
3-methylheptane	1,555
3-ethylhexane	0,523
1t,4-dimethylcyclohexane	0,063
1,1-dimethylcyclohexane	0,012
2,2,5-trimethylhexane	0,013
3c-ethylmethylcyclopentane	0,133
3t-ethylmethylcyclopentane	0,084
2t-ethylmethylcyclopentane	0,082
2,2,4-trimethylhexane	0,010
1t,2-dimethylcyclohexane	0,022
n-octane	0,906
i-propylcyclopentane	0,015
1,1,4-trimethylcyclohexane	0,015
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 098A

CAS No. 64741-66-8

Component	Concentration % (m/m)
i-pentane	0,948
2,3-dimethylbutane	0,867
2-methylpentane	0,269
3-methylpentane	0,132
2,4-dimethylpentane	1,610
2,2,3-trimethylbutane	0,062
2-methylhexane	0,154
2,3-dimethylpentane	1,080
1,1-dimethylcyclopentane	0,007
3-methylhexane	0,102
2,2,4-trimethylpentane	34,895
n-heptane	0,014
2,2-dimethylhexane	0,012
2,5-dimethylhexane	5,835
2,2,3-trimethylpentane	7,244
2,3,4-trimethylpentane	17,001
2,3,3-trimethylpentane	9,946
2,3-dimethylhexane	8,445
2-methyl-3-ethylpentane	0,299
4-methylheptane	0,182
3-methyl-3-ethylpentane	0,052
3,4-dimethylhexane	0,591
2-methylheptane	0,628
3-methylheptane	0,171
1c,2t,3-trimethylcyclopentane	0,018
2,2,5-trimethylhexane	4,993
2,2,4-trimethylhexane	0,079
I2	0,228
2,3,4-trimethylhexane	0,786
2,3,5-trimethylhexane	0,105
2,2,3-trimethylhexane	0,012
2,4-dimethylheptane	0,110
3,3-dimethylheptane	0,286

3,5-dimethylheptane	0,023
1c,2t,4t-trimethylcyclohexane	0,048
2-methyloctene-1	0,047
3,4-dimethylheptane*	0,123
N14	0,018
I5	0,018
4-methyloctane	0,011
3-methyloctane	0,263
I6	0,061
I7	0,271
I8	0,375
I9	0,314
N21	0,009
I10	0,181
n-nonane	0,012
c-nonene-3	0,009
I11	0,008
I12	0,087
2,2-dimethyloctane	0,016
2,4-dimethyloctane	0,009
N29	0,005
2,6-dimethyloctane	0,006
2,5-dimethyloctane	0,013
I13	0,085
3,3-dimethyloctane	0,008
2,3-dimethyloctane	0,005
I17	0,368
I18	0,070
I20	0,021
I21	0,015
I22	0,014
I24	0,033
I25	0,019
I29	0,010
3-ethylnonane	0,083
I32	0,023
I33	0,044
I34	0,016
I35	0,004
I37	0,048

I38	0,006
I39	0,004
I40	0,025
I42	0,015
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 098B

CAS No. 64741-66-8

Component	Concentration % (m/m)
n-butane	0,063
i-pentane	12,311
n-pentane	0,030
2-methylbutene-2	0,014
2,2-dimethylbutane	0,008
2,3-dimethylbutane	5,358
2-methylpentane	1,632
3-methylpentane	0,717
2,4-dimethylpentane	4,878
2,2,3-trimethylbutane	0,191
cyclic diolefin or triolefin	0,008
2-methylhexane	0,316
2,3-dimethylpentane	2,201
5-methyl-t-hexene-2	0,017
3-methylhexane	0,189
2,2,4-trimethylpentane	43,710
t-heptene-3	0,011
2,2-dimethylhexane	0,010
2,5-dimethylhexane	3,596
2,2,3-trimethylpentane	0,477
2,4-dimethylhexane	4,970
2,3,4-trimethylpentane	8,962
2,3,3-trimethylpentane	4,707
2,3-dimethylhexane	3,759
2-methyl-3-ethylpentane	0,133
2-methylheptane	0,066
4-methylheptane	0,018
3-methyl-3-ethylpentane	0,212
3,4-dimethylhexane	0,233
3-methylheptane	0,056
3-ethylhexane	0,006
2,2,5-trimethylhexane	1,025
2,2,4-trimethylhexane	0,013

I2	0,024
2,3,4-trimethylhexane	0,070
3,3-dimethylheptane	0,011
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 099

CAS No. 92045-52-8

Component	Concentration % (m/m)
n-butane	0,002
i-pentane	0,006
n-pentane	0,012
cyclopentane	0,003
2,3-dimethylbutane	0,002
2-methylpentane	0,016
3-methylpentane	0,015
n-hexane	0,092
2,2-dimethylpentane	0,006
methylcyclopentane	0,079
2,4-dimethylpentane	0,027
benzene	0,021
3-methylhexene-1	0,013
cyclohexane	0,265
2-methylhexane	0,818
2,3-dimethylpentane	0,336
1,1-dimethylcyclopentane	0,062
3-methylhexane	1,287
1c,3-dimethylcyclopentane	0,286
1t,3-dimethylcyclopentane	0,284
3-ethylpentane	0,139
1t,2-dimethylcyclopentane	0,604
n-heptane	5,491
1c,2-dimethylcyclopentane	0,134
methylcyclohexane	3,330
2,2-dimethylhexane	0,250
ethylcyclopentane	0,713
2,5-dimethylhexane	0,387
2,2,3-trimethylpentane	0,529
1c,2t,4-trimethylcyclopentane	0,481
3,3-dimethylhexane	0,085
1t,2c,3-trimethylcyclopentane	0,634
2,3,4-trimethylpentane	0,137

O40	0,004
2,3,3-trimethylpentane	0,017
toluene	2,138
2,3-dimethylhexane	0,634
2-methyl-3-ethylpentane	0,367
2-methylheptane	4,090
4-methylheptane	1,275
3-methyl-3-ethylpentane	0,102
3,4-dimethylhexane	0,142
1c,2c,4-trimethylcyclopentane	0,088
3-methylheptane	2,790
1c,2t,3-trimethylcyclopentane	1,903
3-ethylhexane	0,178
1t,4-dimethylcyclohexane	0,655
1,1-dimethylcyclohexane	0,254
2,2,5-trimethylhexane	0,016
3c-ethylmethylcyclopentane	0,514
3t-ethylmethylcyclopentane	0,465
2t-ethylmethylcyclopentane	1,129
1,1-methylethylcyclopentane	0,068
2,2,4-trimethylhexane	0,966
1c,2c,3-trimethylcyclopentane	0,018
n-octane	12,012
2,4,4-trimethylhexane	0,211
N1	0,058
2,3,4-trimethylhexane	0,100
N2	0,148
N3	0,067
1c,2-dimethylcyclohexane	0,187
2,3,5-trimethylhexane	0,603
2,2-dimethylheptane	0,064
N4	2,717
2,2,3-trimethylhexane	0,075
2,4-dimethylheptane	1,692
ethylcyclohexane	1,333
2,5-dimethylheptane	0,140
3,5-dimethylheptane	1,001
2,6-dimethylheptane	0,237
1,1,3-trimethylcyclohexane	0,189
N7	0,255

N8	0,170
ethylbenzene	2,113
N11	0,590
I3	0,170
N12	0,035
1,3-dimethylbenzene	2,602
N14	1,081
1,4-dimethylbenzene	1,054
I5	0,349
4-ethylheptane	0,127
4-methyloctane	0,121
2-methyloctane	0,291
N15	1,486
3-ethylheptane	1,828
1c,2t,3-trimethylcyclohexane	0,143
3-methyloctane	0,181
1c,2t,4c-trimethylcyclohexane	0,358
1,1,2-trimethylcyclohexane	2,376
1,2-dimethylbenzene	1,766
I6	0,024
I7	0,039
N19	1,357
N20	0,253
I9	0,352
i-butylcyclopentane	0,135
N21	0,223
N22	0,041
N23/c-nonene-2	0,013
t-nonene-3	0,048
I10	0,175
n-nonane	8,125
1,1-methylethylcyclohexane	0,092
N25	0,075
N26	0,344
N27	0,490
i-propylcyclohexane	0,273
I12	0,253
2,2-dimethyloctane	0,093
2,4-dimethyloctane	0,228
N28	0,028

N29	0,074
2,6-dimethyloctane	0,748
2,5-dimethyloctane	0,348
n-butylcyclopentane	0,363
I13	0,275
N30	1,084
3,3-dimethyloctane	0,111
N31	0,175
n-propylbenzene	0,622
3,6-dimethyloctane	0,094
3-methyl-5-ethylheptane	0,559
N32	0,094
1,3-methylethylbenzene	0,885
1,4-methylethylbenzene	0,417
N33	0,152
1,3,5-trimethylbenzene	0,438
2,3-dimethyloctane	0,133
I15	0,030
N34	0,056
5-methylnonane	0,192
I17	0,568
1,2-methylethylbenzene	0,617
2-methylnonane	0,529
3-ethyloctane	0,029
N35	0,066
3-methylnonane	0,514
I18	0,007
I19	0,025
1,2,4-trimethylbenzene	0,849
I20	0,057
i-butylcyclohexane	0,187
I22	0,056
I23	0,074
N37	0,049
1t-methyl-2-n-propylcyclohexan	0,028
I24	0,047
I25	0,049
sec-butylbenzene	0,116
n-decane	1,450
N38	0,028

1,2,3-trimethylbenzene	0,213
1,3-methyl-i-propylbenzene	0,068
N39	0,020
1,4-methyl-i-propylbenzene	0,061
I27	0,021
I28	0,023
I29	0,014
sec-butylcyclohexane	0,078
I30	0,070
1,2-methyl-i-propylbenzene	0,138
3-ethylnonane	0,022
N40	0,101
I31	0,065
I32	0,017
1,3-diethylbenzene	0,036
I33	0,125
1,4-methyl-n-propylbenzene	0,012
n-butylbenzene	0,037
1,3-dimethyl-5-ethylbenzene	0,037
1,2-diethylbenzene	0,043
I34	0,026
t-decahydronaphthalene	0,023
N41	0,026
I35	0,068
I37	0,037
I38	0,034
A3	0,065
I39	0,045
I40	0,028
I41	0,008
I42	0,005
I43	0,004
1,2-dimethyl-3-ethylbenzene	0,007
n-undecane	0,084
1,3-methyl-n-butylbenzene	0,003
s-pentylbenzene	0,005
n-dodecane	0,007
n-tridecane	0,007
Total Unknowns	1,183
TOTAL	98,817

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 100

CAS No. 64741-46-4

Component	Concentration % (m/m)
n-butane	0,018
t-butene-2	0,003
i-pentane	33,768
O2	0,044
butyne-2	0,031
2-methylbutene-1	0,026
n-pentane	53,156
isoprene	0,051
t-pentene-2	0,012
3,3-dimethylbutene-1	0,022
c-pentene-2	0,003
2-methylbutene-2	0,066
2,2-dimethylbutane	1,538
O6	0,011
cyclopentene	0,032
4-methylpentene-1	0,009
3-methylpentene-1	0,003
cyclopentane	6,249
2,3-dimethylbutane	0,909
4-methyl-c-pentene-2	0,005
2-methylpentane	2,825
2,3-dimethylbutene-1	0,016
3-methylpentane	0,801
n-hexane	0,234
2,2-dimethylpentane	0,115
benzene	0,050
cyclohexane	0,006
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 101

CAS No. 64742-95-6

Component	Concentration % (m/m)
toluene	0,0012
1,3-dimethylbenzene	0,0345
1,4-dimethylbenzene	0,0123
1,2-dimethylbenzene	0,3393
n-nonane	0,0106
i-propylbenzene	0,7258
2,6-dimethyloctane	0,0149
2,5-dimethyloctane	0,0129
n-butylcyclopentane	0,0118
N30	0,0173
3,3-dimethyloctane	0,0387
n-propylbenzene	5,3861
1,3-methylethylbenzene	21,2028
1,4-methylethylbenzene	9,5501
N33	0,0272
1,3,5-trimethylbenzene	10,1269
I16	0,0346
5-methylnonane	0,0426
I17	0,0765
1,2-methylethylbenzene	7,3581
2-methylnonane	0,0601
3-ethyloctane	0,0363
3-methylnonane	0,1012
t-butylbenzene	0,0174
1,2,4-trimethylbenzene	31,7534
I22	0,0687
I23	0,0158
i-butylbenzene	0,1163
sec-butylbenzene	0,1189
n-decane	0,0808
1,2,3-trimethylbenzene	5,7771
1,3-methyl-i-propylbenzene	0,3412
1,4-methyl-i-propylbenzene	0,084
2-3-dihydroindene	1,5322
1,2-methyl-i-propylbenzene	0,0919
1,3-methyl-n-propylbenzene	0,3433
1,4-diethylbenzene	0,8544
1,4-methyl-n-propylbenzene	0,4309
n-butylbenzene	0,1323
1,3-dimethyl-5-ethylbenzene	0,9578
1,2-diethylbenzene	0,0523
1,2-methyl-n-propylbenzene	0,1941
1,4,dimethyl-2-ethylbenzene	0,4061
1,3-dimethyl-4-ethylbenzene	0,3299

1,2-dimethyl-4-ethylbenzene	0,5232
1,3-dimethyl-2-ethylbenzene	0,027
1,2-dimethyl-3-ethylbenzene	0,0058
1,2-ethyl-i-propylbenzene	0,0688
1,2,4,5-tetramethylbenzene	0,1588
1,2,3,5-tetramethylbenzene	0,1899
5-methylindan	0,0276
4-methylindan	0,0044
2-methylindan	0,0059
1,3-di-i-propylbenzene	0,0248
s-pentylbenzene	0,0318
1-t-butyl-3,5-dimethylbenzene	0,0019
naphthalene	0,0097

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 103

CAS No. 93571-75-6

Component	Concentration % (m/m)
toluene	0,4416
N2	0,004
2,3,5-trimethylhexane	0,0064
2,2-dimethylheptane	0,0029
N4	0,0365
2,4-dimethylheptane	0,0037
ethylcyclohexane	0,0133
2,5-dimethylheptane	0,0032
3,5-dimethylheptane	0,0214
2,6-dimethylheptane	0,0143
N7	0,008
N8	0,0051
ethylbenzene	55,4057
N12	0,0634
1,3-dimethylbenzene	7,2709
1,4-dimethylbenzene	12,0045
3,4-dimethylheptane	0,0812
I5	0,0497
4-ethylheptane	0,0449
4-methyloctane	0,2012
2-methyloctane	0,2351
1c,2t,3-trimethylcyclohexane	0,0092
3-ethylheptane	0,0106
3-methyloctane	0,0802
I6	0,3888
1,2-dimethylbenzene	22,8983
N19	0,0537
I8	0,0234
N20	0,0073
I9	0,0073
i-butylcyclopentane	0,0071
N21	0,0105
n-nonane	0,5867
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 105

CAS No. 8030-30-6

Component	Concentration % (m/m)
i-pentane	0,151
n-pentane	3,009
2,2-dimethylbutane	1,941
1c,3-pentadiene	0,006
cyclopentane	2,014
2,3-dimethylbutane	2,771
2-methylpentane	14,393
O8	0,012
3-methylpentane	8,047
2-methylpentene-1	0,027
n-hexane	19,373
c-hexene-3	0,020
2,2-dimethylpentane	0,402
methylcyclopentane	5,018
2,4-dimethylpentane	0,635
2,2,3-trimethylbutane	0,103
benzene	2,524
3,3-dimethylpentane	0,242
cyclohexane	3,163
2-methylhexane	3,654
2,3-dimethylpentane	1,031
1,1-dimethylcyclopentane	0,491
3-methylhexane	3,468
1c,3-dimethylcyclopentane	0,685
1t,3-dimethylcyclopentane	0,618
3-ethylpentane	0,223
1t,2-dimethylcyclopentane	1,026
n-heptane	7,559
3-methyl-c-hexene-2	0,022
1c,2-dimethylcyclopentane	4,009
2,2-dimethylhexane	0,323
ethylcyclopentane	0,222
2,5-dimethylhexane	0,234

2,2,3-trimethylpentane	0,216
1c,2t,4-trimethylcyclopentane	0,202
3,3-dimethylhexane	0,058
1t,2c,3-trimethylcyclopentane	0,170
2,3,4-trimethylpentane	0,026
2,3,3-trimethylpentane	0,012
toluene	2,034
2,3-dimethylhexane	0,198
2-methyl-3-ethylpentane	0,040
4-methylheptane	1,418
3-methyl-3-ethylpentane	0,365
3,4-dimethylhexane	0,030
1c,2c,4-trimethylcyclopentane	0,036
1c,3-dimethylcyclohexane	0,022
3-methylheptane	0,888
1c,2t,3-trimethylcyclopentane	0,585
1t,4-dimethylcyclohexane	0,197
1,1-dimethylcyclohexane	0,087
2,2,5-trimethylhexane	0,010
3c-ethylmethylcyclopentane	0,038
3t-ethylmethylcyclopentane	0,034
2t-ethylmethylcyclopentane	0,073
2,2,4-trimethylhexane	0,016
1t,2-dimethylcyclohexane	0,182
n-octane	2,225
i-propylcyclopentane	0,018
N1	0,010
2,3,4-trimethylhexane	0,008
N3	0,033
1c,2-dimethylcyclohexane	0,028
2,3,5-trimethylhexane	0,058
1,1,4-trimethylcyclohexane	0,248
2,4-dimethylheptane	0,180
ethylcyclohexane	0,139
2,5-dimethylheptane	0,021
3,3-dimethylheptane	0,119
3,5-dimethylheptane	0,029
I3	0,116
I4	0,054
1,4-dimethylbenzene	0,406

3,5-dimethylheptane*	0,106
3,4-dimethylheptane*	0,120
N14	0,035
I5	0,010
4-ethylheptane	0,016
4-methyloctane	0,103
2-methyloctane	0,152
1c,2t,3-trimethylcyclohexane	0,013
1c,2t,4c-trimethylcyclohexane	0,023
3-methyloctane	0,143
1,2-dimethylbenzene	0,009
I6	0,155
I8	0,059
N20	0,011
I9	0,021
N22	0,007
n-nonane	0,478
1,1-methylethylcyclohexane	0,007
N26	0,011
N27	0,020
i-propylcyclohexane	0,011
I12	0,006
2,4-dimethyloctane	0,009
2,6-dimethyloctane	0,040
2,5-dimethyloctane	0,014
I13	0,006
N30	0,010
3,3-dimethyloctane	0,043
n-propylbenzene	0,020
3-methyl-5-ethylheptane	0,014
1,3-methylethylbenzene	0,031
1,4-methylethylbenzene	0,009
N33	0,008
1,3,5-trimethylbenzene	0,026
5-methylnonane	0,007
I17	0,019
2-methylnonane	0,029
3-methylnonane	0,015
1,2,4-trimethylbenzene	0,034
i-butylcyclohexane	0,004

n-decane	0,066
1,2,3-trimethylbenzene	0,008
1,2-methyl-i-propylbenzene	0,006
I31	0,006
I33	0,005
n-undecane	0,011
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 110

CAS No. 92045-58-4

Component	Concentration % (m/m)
i-pentane	0,0055
n-pentane	4,0689
2,2-dimethylbutane	15,4271
O5	0,0083
cyclopentane	8,1495
2,3-dimethylbutane	10,5193
2-methylpentane	37,8833
2,3-dimethylbutene-1	0,0617
4-methyl-t-pentene-2	0,0055
3-methylpentane	21,4634
2-methylpentene-1	0,0314
n-hexane	2,2036
t-hexene-3	0,0116
methylcyclopentane	0,161
Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 9

Component	Concentration % (m/m)
propane	0,0201
i-butane	0,0243
n-butane	0,5109
t-butene-2	0,0365
i-pentane	21,0806
O2	0,0245
butyne-2	0,0017
pentene-1	0,0022
2-methylbutene-1	0,0069
n-pentane	27,1313
t-pentene-2	0,0075
3,3-dimethylbutene-1	0,0024
2-methylbutene-2	0,0138
2,2-dimethylbutane	0,3428
O6	0,0051
cyclopentane	1,232
2,3-dimethylbutane	1,1888
2-methylpentane	7,7287
4-methyl-t-pentene-2	0,0097
3-methylpentane	4,5723
2-methylpentene-1	0,0187
n-hexane	11,6808
c-hexene-3	0,0136
2,2-dimethylpentane	0,1265
methylcyclopentane	2,5092
2,4-dimethylpentane	0,353
2,2,3-trimethylbutane	0,0234
benzene	0,8711
3,3-dimethylpentane	0,072
cyclohexane	1,5213
2-methylhexane	1,7209
2,3-dimethylpentane	0,7501
1,1-dimethylcyclopentane	0,1611
3-methylhexane	1,9361
1c,3-dimethylcyclopentane	0,3387
1t,3-dimethylcyclopentane	0,3065
3-ethylpentane	0,1484
1t,2-dimethylcyclopentane	0,5627
n-heptane	4,0072
3-methyl-c-hexene-2	0,0142
methylcyclohexane	1,5836
2,2-dimethylhexane	0,1219
ethylcyclopentane	0,1921

2,4-dimethylhexane	0,1198
2,2,3-trimethylpentane	0,1652
1c,2t,4-trimethylcyclopentane	0,109
3,3-dimethylhexane	0,0317
1t,2c,3-trimethylcyclopentane	0,1165
2,3,4-trimethylpentane	0,0314
toluene	0,9774
2,3-dimethylhexane	0,1275
2-methyl-3-ethylpentane	0,0698
2-methylheptane	0,671
4-methylheptane	0,1976
3,4-dimethylhexane	0,0189
3-methyl-3-ethylpentane	0,0237
1c,2c,4-trimethylcyclopentane	0,0121
1c,3-dimethylcyclohexane	0,3811
3-methylheptane	0,2577
3-ethylhexane	0,022
1t,4-dimethylcyclohexane	0,087
1,1-dimethylcyclohexane	0,0366
3c-ethylmethylcyclopentane	0,0432
3t-ethylmethylcyclopentane	0,0386
2t-ethylmethylcyclopentane	0,0853
1,1-methylethylcyclopentane	0,0088
1t,2-dimethylcyclohexane	0,0865
n-octane	1,0676
i-propylcyclopentane	0,0116
N2	0,0081
N3	0,0095
1c,2-dimethylcyclohexane	0,0135
2,3,5-trimethylhexane	0,0426
N4	0,1604
2,4-dimethylheptane	0,0906
ethylcyclohexane	0,074
3,5-dimethylheptane	0,0555
2,6-dimethylheptane	0,0225
1,1,3-trimethylcyclohexane	0,0123
ethylbenzene	0,1095
I3	0,0304
1,3-dimethylbenzene	0,2208
1,4-dimethylbenzene	0,0908
3,4-dimethylheptane*	0,0765
N14	0,0159
4-methyloctane	0,0113
N15	0,064
3-ethylheptane	0,0805
1c,2t,4c-trimethylcyclohexane	0,014
3-methyloctane	0,0884
1,1,2-trimethylcyclohexane	0,0079
1,2-dimethylbenzene	0,0983
I8	0,055
N20	0,0128
n-nonane	0,2662

N26	0,0074
N27	0,0123
i-propylcyclohexane	0,008
I12	0,0077
2,4-dimethyloctane	0,0123
2,6-dimethyloctane	0,0262
2,5-dimethyloctane	0,0122
n-butylcyclopentane	0,0088
N30	0,0103
N31	0,0341
3,6-dimethyloctane	0,0188
3-methyl-5-ethylheptane	0,0232
1,3-methylethylbenzene	0,0283
1,4-methylethylbenzene	0,0132
N33	0,0075
1,3,5-trimethylbenzene	0,0212
5-methylnonane	0,0064
I17	0,0187
1,2-methylethylbenzene	0,0104
2-methylnonane	0,0242
3-methylnonane	0,019
1,2,4-trimethylbenzene	0,0384
i-butylcyclohexane	0,009
n-decane	0,0616
1,2,3-trimethylbenzene	0,0086
1,2-methyl-i-propylbenzene	0,009
I31	0,0065
I33	0,0084
A3	0,0068
n-undecane	0,0177

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 120

CAS No. 64741-68-0

Component	Concentration % (m/m)
i-butane	0,0013
n-butane	0,012
i-pentane	0,1116
n-pentane	0,076
2,2-dimethylbutane	0,0067
cyclopentane	0,0016
2,3-dimethylbutane	0,0102
2-methylpentane	0,053
3-methylpentane	0,0407
n-hexane	0,0479
2,2-dimethylpentane	0,0462
methylcyclopentane	0,0108
2,4-dimethylpentane	0,0988
2,2,3-trimethylbutane	0,0112
4,4-dimethyl-c-pentene-2	0,0027
benzene	0,3722
3-methylhexene-1	0,0045
3,3-dimethylpentane	0,2049
5-methylhexene-1	0,0051
cyclohexane	0,0557
2-methyl-t-hexene-3	0,0059
2-ethyl-3-methylbutene-1	0,0031
4-methylhexene-1	0,0123
2-methylhexane	2,8746
2,3-dimethylpentane	1,0816
1,1-dimethylcyclopentane	0,0565
3-methylhexane	4,0016
3,4-dimethyl-c-pentene-2	0,0187
1c,3-dimethylcyclopentane	0,1136
1t,3-dimethylcyclopentane	0,1193
3-ethylpentane	0,4175
1t,2-dimethylcyclopentane	0,1644
heptene-1	0,0051
2-ethylpentene-1	0,0127
3-methyl-c-hexene-3	0,0131
t-heptene-3	0,023
n-heptane	3,1462
3-methyl-c-hexene-2	0,0727
3-methyl-t-hexene-3	0,0277
t-heptene-2	0,0203
3-ethylpentene-2	0,0153
c-heptene-2	0,0328
2,3-dimethylpentene-2	0,0302
1c,2-dimethylcyclopentane	0,0508

methylcyclohexane	0,1243
2,2-dimethylhexane	0,177
ethylcyclopentane	0,093
2,5-dimethylhexane	0,2952
2,2,3-trimethylpentane	0,4994
1c,2t,4-trimethylcyclopentane	0,0499
3,3-dimethylhexane	0,1357
1t,2c,3-trimethylcyclopentane	0,0378
O39	0,0249
2,3,4-trimethylpentane	0,0155
O40	0,0099
toluene	24,7936
O41	0,1199
2,3-dimethylhexane	0,3824
2-methyl-3-ethylpentane	0,0793
1,1,2-trimethylcyclopentane	0,0248
O44	0,0137
2-methylheptane	1,1298
4-methylheptane	0,5765
3-methyl-3-ethylpentane	0,1035
3,4-dimethylhexane	0,1041
1c,2c,4-trimethylcyclopentane	0,0248
3-methylheptane	1,3998
3-ethylhexane	0,2917
1t,4-dimethylcyclohexane	0,0978
O48	0,0179
1,1-dimethylcyclohexane	0,0058
2,2,5-trimethylhexane	0,0098
3c-ethylmethylcyclopentane	0,0465
3t-ethylmethylcyclopentane	0,0391
*octene-1	0,0389
1,1-methylethylcyclopentane	0,0166
2,2,4-trimethylhexane	0,0074
1t,2-dimethylcyclohexane	0,0209
t-octene-4	0,0052
1c,2c,3-trimethylcyclopentane	0,0189
n-octane	1,0471
t-octene-2	0,0053
I2	0,007
2,4,4-trimethylhexane	0,0147
c-octene-2 (O53)	0,0021
N1	0,0014
2,3,4-trimethylhexane	0,016
N2	0,0113
N3	0,0219
2,3,5-trimethylhexane	0,0058
2,2-dimethylheptane	0,0587
1,1,4-trimethylcyclohexane	0,0073
N4	0,0286
2,2,3-trimethylhexane	0,0147
2,4-dimethylheptane	0,0403
ethylcyclohexane	0,0046

3,5-dimethylheptane	0,1233
2,6-dimethylheptane	0,0462
N7	0,0052
N8	0,0039
ethylbenzene	5,3157
1,3-dimethylbenzene	16,0024
1,4-dimethylbenzene	6,669
3,4-dimethylheptane*	0,0669
I5	0,0509
4-ethylheptane	0,0433
4-methyloctane	0,158
2-methyloctane	0,1629
3-methyloctane	0,0472
I6	0,2083
1,2-dimethylbenzene	7,7893
n-nonane	0,1503
i-propylbenzene	0,1669
c-nonene-3	0,003
2,5-dimethyloctane	0,0072
3,3-dimethyloctane	0,0074
n-propylbenzene	0,7629
1,3-methylethylbenzene	3,4706
1,4-methylethylbenzene	1,5719
1,3,5-trimethylbenzene	1,8519
I16	0,0116
5-methylnonane	0,0079
I17	0,011
1,2-methylethylbenzene	1,0097
2-methylnonane	0,0135
3-ethyloctane	0,0073
3-methylnonane	0,0127
t-butylbenzene	0,0044
1,2,4-trimethylbenzene	5,1908
I22	0,0163
I24	0,0186
n-decane	0,0195
I26	0,0086
1,2,3-trimethylbenzene	0,8777
1,3-methyl-i-propylbenzene	0,0471
I27	0,012
2-3-dihydroindene	0,2135
3-ethylnonane	0,0102
1,3-methyl-n-propylbenzene	0,0823
1,4-diethylbenzene	0,1963
n-butylbenzene	0,1169
1,3-dimethyl-5-ethylbenzene	0,029
1,2-diethylbenzene	0,2658
I34	0,0145
1,2-methyl-n-propylbenzene	0,0523
1,4-dimethyl-2-ethylbenzene	0,1391
1,3-dimethyl-4-ethylbenzene	0,1427
1,2-dimethyl-4-ethylbenzene	0,2601

1,3-dimethyl-2-ethylbenzene	0,0109
1,2-dimethyl-3-ethylbenzene	0,0063
1,2-ethyl-i-propylbenzene	0,0534
1,2-methyl-n-butylbenzene	0,1531
1,2,3,5-tetramethylbenzene	0,2033
5-methylindan	0,0407
4-methylindan	0,0171
2-methylindan	0,0213
1,3-methyl-n-butylbenzene	0,0047
1,3-di-i-propylbenzene	0,0363
s-pentylbenzene	0,0692
n-pentylbenzene	0,0063
1,2-di-i-propylbenzene	0,0093
1,4-di-i-propylbenzene	0,0091
tetrahydronaphthalene	0,011
1-t-butyl-3,5-dimethylbenzene	0,0186
naphthalene	0,0661
I46	0,0069
I48	0,0064
1,3-di-n-propylbenzene	0,0161
A5	0,0101
A6	0,009
1,3,5-triethylbenzene	0,0057
1,2,4-triethylbenzene	0,0051
1,4-methyl-n-pentylbenzene	0,0107
n-hexylbenzene	0,006
1,2,3,4,5-pentamethylbenzene	0,0117
2-methylnaphthalene	0,048
1-methylnaphthalene	0,0241

Total Unknowns	0,017
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 122

CAS No. 68919-37-9

Component	Concentration % (m/m)
i-butane	0,0503
n-butane	0,6505
vinyl acetylene	0,003
c-butene-2	0,0026
3-methylbutene-1	0,004
i-pentane	4,52
O2	0,0088
pentene-1	0,0068
2-methylbutene-1	0,0234
n-pentane	3,1561
t-pentene-2	0,019
3,3-dimethylbutene-1	0,0119
2-methylbutene-2	0,0521
2,2-dimethylbutane	0,2608
4-methylpentene-1	0,0044
cyclopentane	0,0652
2,3-dimethylbutane	0,4107
2-methylpentane	2,1563
4-methyl-t-pentene-2	0,0252
3-methylpentane	1,6533
2-methylpentene-1	0,0104
hexene-1	0,0134
O11	0,0068
n-hexane	1,9132
t-hexene-3	0,0106
c-hexene-3	0,0056
t-hexene-2	0,016
2-methylpentene-2	0,025
3-methyl-c-pentene-2	0,0147
c-hexene-2	0,0105
3,3-dimethylpentene-1	0,0212
2,2-dimethylpentane	0,3033
methylcyclopentane	0,2653
2,4-dimethylpentane	0,4995
cyclic diolefin or triolefin	0,0366
4,4-dimethyl-c-pentene-2	0,0066
2,4-dimethylpentene-1	0,0082
benzene	1,6744
3,3-dimethylpentane	0,2721
cyclohexane	0,0333
2-methyl-t-hexene-3	0,0133
2-ethyl-3-methylbutene-1	0,0063
4-methylhexene-1	0,0161
2-methylhexane	2,8335

2,3-dimethylpentane	1,0718
1,1-dimethylcyclopentane	0,0648
3-methylhexane	3,5545
3,4-dimethyl-c-pentene-2	0,0245
1c,3-dimethylcyclopentane	0,1098
1t,3-dimethylcyclopentane	0,1089
3-ethylpentane	0,3531
1t,2-dimethylcyclopentane	0,148
heptene-1	0,0049
2-ethylpentene-1	0,0155
3-methyl-c-hexene-3	0,0148
t-heptene-3	0,02
n-heptane	2,5444
3-methyl-c-hexene-2	0,0612
3-methyl-t-hexene-3	0,0246
t-heptene-2	0,0187
3-ethylpentene-2	0,0149
c-heptene-2	0,0302
2,3-dimethylpentene-2	0,0297
1c,2-dimethylcyclopentane	0,0417
methylcyclohexane	0,1019
2,2-dimethylhexane	0,1463
ethylcyclopentane	0,0766
2,5-dimethylhexane	0,2431
2,2,3-trimethylpentane	0,4133
1c,2t,4-trimethylcyclopentane	0,0436
3,3-dimethylhexane	0,113
1t,2c,3-trimethylcyclopentane	0,0313
O39	0,0205
2,3,4-trimethylpentane	0,013
O40	0,0083
toluene	20,3026
2,3-dimethylhexane	0,3157
2-methyl-3-ethylpentane	0,0691
1,1,2-trimethylcyclopentane	0,0239
2-methylheptane	0,9271
4-methylheptane	0,4748
3-methyl-3-ethylpentane	0,086
3,4-dimethylhexane	0,0896
1c,2c,4-trimethylcyclopentane	0,0256
3-methylheptane	1,1489
3-ethylhexane	0,3282
1t,4-dimethylcyclohexane	0,0171
2,2,5-trimethylhexane	0,0401
3t-ethylmethylcyclopentane	0,0325
*octene-1	0,0318
1,1-methylethylcyclopentane	0,0028
t-octene-4	0,0082
2,2,4-trimethylhexane	0,0053
1t,2-dimethylcyclohexane	0,017
n-octane	0,8578
2,3,4-trimethylhexane	0,014

2,3,3-trimethylhexene-1	0,0198
2,2-dimethylheptane	0,0491
N4	0,0262
2,4-dimethylheptane	0,038
3,5-dimethylheptane	0,1048
2,6-dimethylheptane	0,0388
ethylbenzene	4,3465
1,3-dimethylbenzene	12,9147
1,4-dimethylbenzene	5,5456
3,4-dimethylheptane*	0,0619
I5	0,053
4-ethylheptane	0,0434
4-methyloctane	0,1376
2-methyloctane	0,1377
3-methyloctane	0,0381
I6	0,1692
1,2-dimethylbenzene	6,3736
n-nonane	0,1235
i-propylcyclohexane	0,1476
n-propylbenzene	0,6243
1,3-methylethylbenzene	2,8206
1,4-methylethylbenzene	1,2813
1,3,5-trimethylbenzene	1,5078
I17	0,0099
1,2-methylethylbenzene	0,8222
2-methylnonane	0,0124
3-methylnonane	0,0129
1,2,4-trimethylbenzene	4,2169
I24	0,017
n-decane	0,0171
I26	0,0082
1,2,3-trimethylbenzene	0,7131
1,3-methyl-i-propylbenzene	0,0406
I27	0,013
2-3-dihydroindene	0,1766
3-ethylnonane	0,011
1,3-methyl-n-propylbenzene	0,0675
1,4-diethylbenzene	0,1598
n-butylbenzene	0,0955
1,3-dimethyl-5-ethylbenzene	0,0241
1,2-diethylbenzene	0,2165
I34	0,0141
I35	0,0465
1,4-dimethyl-2-ethylbenzene	0,1163
1,3-dimethyl-4-ethylbenzene	0,1203
1,2-dimethyl-4-ethylbenzene	0,215
1,3-dimethyl-2-ethylbenzene	0,0097
1,2-ethyl-i-propylbenzene	0,0436
1,2-methyl-n-butylbenzene	0,1262
1,2,3,5-tetramethylbenzene	0,171
5-methylindan	0,0346
4-methylindan	0,0147

2-methylindan	0,0177
1,3-di-i-propylbenzene	0,0295
s-pentylbenzene	0,0573
1,2-di-i-propylbenzene	0,0079
1,4-di-i-propylbenzene	0,0078
tetrahydronaphthalene	0,0097
1-t-butyl-3,5-dimethylbenzene	0,015
naphthalene	0,0534
1,3-di-n-propylbenzene	0,0152
A5	0,0118
A6	0,0101
1,4-methyl-n-pentylbenzene	0,0103
1,2,3,4,5-pentamethylbenzene	0,0105
2-methylnaphthalene	0,0403
1-methylnaphthalene	0,0277

Total Unknowns	0,141
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Naphtha 10

Component	Concentration % (m/m)
n-butane	0,001
i-pentane	0,007
n-pentane	0,005
4-methyl-c-pentene-2	0,005
3-methylpentane	0,003
n-hexane	0,002
2,2-dimethylpentane	0,002
2,4-dimethylpentane	0,003
benzene	0,705
2-methyl-c-hexene-3	0,048
cyclohexane	0,002
2-methylhexane	0,006
2,3-dimethylpentane	0,503
1,1-dimethylcyclopentane	0,006
3-methylhexane	0,939
3,4-dimethyl-c-pentene-2	0,008
1c,3-dimethylcyclopentane	0,018
1t,3-dimethylcyclopentane	0,020
3-ethylpentane	0,127
1t,2-dimethylcyclopentane	0,025
3-methyl-c-hexene-3	0,010
t-heptene-3	0,017
n-heptane	1,204
3-methyl-c-hexene-2	0,056
3-methyl-t-hexene-3	0,021
t-heptene-2	0,017
3-ethylpentene-2	0,011
c-heptene-2	0,028
2,3-dimethylpentene-2	0,029
1c,2-dimethylcyclopentane	0,017
methylcyclohexane	0,013
2,2-dimethylhexane	0,055
ethylcyclopentane	0,017

2,5-dimethylhexane	0,062
2,4-dimethylhexane	0,099
1c,2t,4-trimethylcyclopentane	0,009
3,3-dimethylhexane	0,049
1t,2c,3-trimethylcyclopentane	0,006
2,3,4-trimethylpentane	0,006
toluene	28,170
2,3-dimethylhexane	0,093
2-methyl-3-ethylpentane	0,019
2-methylheptane	0,280
4-methylheptane	0,146
3-methyl-3-ethylpentane	0,030
3,4-dimethylhexane	0,026
3-methylheptane	0,355
1c,2t,3-trimethylcyclopentane	0,098
2,2,5-trimethylhexane	0,017
3t-ethylmethylcyclopentane	0,007
2t-ethylmethylcyclopentane	0,004
1c,2c,3-trimethylcyclopentane	0,011
n-octane	0,278
N3	0,006
2,3,5-trimethylhexane	0,008
3,3-dimethylheptane	0,016
ethylbenzene	5,980
1,3-dimethylbenzene	17,751
1,4-dimethylbenzene	7,119
I5	0,081
4-methyloctane	0,026
2-methyloctane	0,025
3-ethylheptane	0,008
3-methyloctane	0,054
1,2-dimethylbenzene	9,491
n-nonane	0,026
i-propylbenzene	0,342
n-propylbenzene	0,976
1,3-methylethylbenzene	4,483
1,4-methylethylbenzene	2,023
1,3,5-trimethylbenzene	2,117
5-methylnonane	0,004
1,2-methylethylbenzene	1,487

3-ethyloctane	0,020
I19	0,003
t-butylbenzene	0,013
1,2,4-trimethylbenzene	7,587
i-butylbenzene	0,017
sec-butylbenzene	0,020
1,2,3-trimethylbenzene	1,550
1,3-methyl-i-propylbenzene	0,095
1,4-methyl-i-propylbenzene	0,025
2-3-dihydroindene	0,179
1,2-methyl-i-propylbenzene	0,020
1,3-diethylbenzene	0,077
1,4-diethylbenzene	0,203
n-butylbenzene	0,120
1,3-dimethyl-5-ethylbenzene	0,024
1,2-diethylbenzene	0,302
1,2-methyl-n-propylbenzene	0,059
1,4,dimethyl-2-ethylbenzene	0,186
1,3-dimethyl-4-ethylbenzene	0,183
1,2-dimethyl-4-ethylbenzene	0,358
1,3-dimethyl-2-ethylbenzene	0,017
1,2-dimethyl-3-ethylbenzene	0,011
1,2-ethyl-i-propylbenzene	0,086
n-undecane	0,004
1,4-ethyl-i-propylbenzene	0,006
1,2-methyl-n-butylbenzene	0,259
1,2,3,5-tetramethylbenzene	0,343
5-methylindan	0,061
4-methylindan	0,031
1,2-ethyl-n-propylbenzene	0,007
2-methylindan	0,039
1,3-methyl-n-butylbenzene	0,009
1,3-di-i-propylbenzene	0,041
s-pentylbenzene	0,120
n-pentylbenzene	0,007
1,2-di-i-propylbenzene	0,006
1,4-di-i-propylbenzene	0,020
tetrahydronaphthalene	0,018
1-t-butyl-3,5-dimethylbenzene	0,039
naphthalene	0,080

I46	0,010
I48	0,012
A5	0,045
dodecene-1	0,030
n-dodecane	0,033
1,3,5-triethylbenzene	0,004
1,2,4-triethylbenzene	0,012
1,4-methyl-n-pentylbenzene	0,020
n-hexylbenzene	0,095
1,2,3,4,5-pentamethylbenzene	0,040
n-tridecane	0,005
Total Unknowns	1,740
TOTAL	98,260

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 125

CAS No. 68783-66-4

Component	Concentration % (m/m)
propane	0,1362
i-butane	2,5211
butene-1	0,0718
n-butane	5,6658
t-butene-2	0,0329
2,2-dimethylpropane	0,0287
3-methylbutene-1	0,0362
i-pentane	23,5978
pentene-1	0,0627
2-methylbutene-1	0,2527
n-pentane	16,3345
isoprene	0,0114
t-pentene-2	0,1824
3,3-dimethylbutene-1	0,0135
c-pentene-2	0,0979
2-methylbutene-2	0,5276
1t,3-pentadiene	0,0035
2,2-dimethylbutane	5,2373
cyclopentene	0,0306
4-methylpentene-1	0,0435
3-methylpentene-1	0,069
cyclopentane	0,8457
2,3-dimethylbutane	4,1416
4-methyl-c-pentene-2	0,1053
2-methylpentane	18,6874
2,3-dimethylbutene-1	0,1856
4-methyl-t-pentene-2	0,0074
3-methylpentane	11,7231
2-methylpentene-1	0,0194
hexene-1	0,1739
O11	0,0513
n-hexane	5,5742
t-hexene-3	0,0576
c-hexene-3	0,0233
t-hexene-2	0,0826
2-methylpentene-2	0,1532
4-methylcyclopentene	0,0088
3-methyl-c-pentene-2	0,0807
3-methylcyclopentene	0,0086
c-hexene-2	0,0331
3-methyl-t-pentene-2	0,0596
2,2-dimethylpentane	0,0031
methylcyclopentane	0,1203
2,4-dimethylpentane	0,0079

benzene

2,8895

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 126

CAS No. 93572-29-3

Component	Concentration % (m/m)
propane	0,0008
i-butane	0,0624
butene-1	0,0027
n-butane	0,4583
vinyl acetylene	0,0027
t-butene-2	0,0011
c-butene-2	0,0023
3-methylbutene-1	0,0046
i-pentane	3,5857
pentene-1	0,0088
2-methylbutene-1	0,0361
n-pentane	2,5076
isoprene	0,003
t-pentene-2	0,0252
3,3-dimethylbutene-1	0,0016
c-pentene-2	0,0138
2-methylbutene-2	0,076
2,2-dimethylbutane	0,7638
cyclopentene	0,0042
4-methylpentene-1	0,0061
3-methylpentene-1	0,0094
cyclopentane	0,1223
2,3-dimethylbutane	0,6031
4-methyl-c-pentene-2	0,0164
2-methylpentane	2,7505
4-methyl-t-pentene-2	0,0353
3-methylpentane	1,7779
2-methylpentene-1	0,025
hexene-1	0,0073
n-hexane	1,0032
t-hexene-3	0,0103
c-hexene-3	0,0044
t-hexene-2	0,0141
2-methylpentene-2	0,0264
3-methyl-c-pentene-2	0,0133
c-hexene-2	0,0058
3,3-dimethylpentene-1	0,011
4,4-dimethyl-t-pentene-2	0,005
2,2-dimethylpentane	0,0298
2,4-dimethylpentane	0,0068
cyclic diolefin or triolefin	0,0023
benzene	1,3675
3,3-dimethylpentane	0,069
cyclohexane	0,0033

2-methyl-t-hexene-3	0,0026
4-methylhexene-1	0,0077
2-methylhexane	0,6364
2,3-dimethylpentane	0,2946
5-methyl-t-hexene-2	0,0091
3-methylhexane	1,0769
3,4-dimethyl-c-pentene-2	0,0091
5-methyl-c-hexene-2	0,0187
1t,3-dimethylcyclopentane	0,0205
3-ethylpentane	0,1371
1t,2-dimethylcyclopentane	0,0263
heptene-1	0,0083
2,2,4-trimethylpentane	0,0037
2-ethylpentene-1	0,0088
3-methyl-c-hexene-3	0,0105
t-heptene-3	0,0172
n-heptane	1,2431
3-methyl-c-hexene-2	0,0553
3-methyl-t-hexene-3	0,0213
t-heptene-2	0,0172
3-ethylpentene-2	0,0114
c-heptene-2	0,0275
2,3-dimethylpentene-2	0,028
O29	0,0158
1c,2-dimethylcyclopentane	0,0127
O30	0,0548
ethylcyclopentane	0,0172
2,5-dimethylhexane	0,0709
2,2,3-trimethylpentane	0,1154
1c,2t,4-trimethylcyclopentane	0,0085
3,3-dimethylhexane	0,0492
1t,2c,3-trimethylcyclopentane	0,007
O39	0,0063
2,3,4-trimethylpentane	0,0082
O40	0,0033
toluene	24,7546
2,3-dimethylhexane	0,0903
2-methyl-3-ethylpentane	0,0165
2-methylheptane	0,2771
4-methylheptane	0,1414
3-methyl-3-ethylpentane	0,0285
3,4-dimethylhexane	0,0262
3-methylheptane	0,3426
1c,2t,3-trimethylcyclopentane	0,0933
2,2,5-trimethylhexane	0,006
3t-ethylmethylcyclopentane	0,0048
2t-ethylmethylcyclopentane	0,006
1c,2c,3-trimethylcyclopentane	0,009
n-octane	0,2643
2,2-dimethylheptane	0,0077
3,5-dimethylheptane	0,0116
ethylbenzene	4,8469

1,3-dimethylbenzene	14,947
1,4-dimethylbenzene	6,1614
I5	0,0634
4-methyloctane	0,0225
2-methyloctane	0,0236
3-methyloctane	0,0066
I6	0,0467
1,2-dimethylbenzene	7,951
n-nonane	0,0236
I11	0,3081
n-propylbenzene	0,832
1,3-methylethylbenzene	3,8909
1,4-methylethylbenzene	1,7386
1,3,5-trimethylbenzene	1,7855
1,2-methylethylbenzene	1,2762
2-methylnonane	0,0172
t-butylbenzene	0,0106
1,2,4-trimethylbenzene	6,2509
I22	0,0159
I24	0,0131
n-decane	0,0142
1,2,3-trimethylbenzene	1,2618
1,3-methyl-i-propylbenzene	0,0717
I27	0,02
2-3-dihydroindene	0,172
3-ethylnonane	0,0187
1,3-methyl-n-propylbenzene	0,0576
1,4-diethylbenzene	0,1482
n-butylbenzene	0,0868
1,3-dimethyl-5-ethylbenzene	0,0175
1,2-diethylbenzene	0,2196
I34	0,0089
I35	0,0444
1,4-dimethyl-2-ethylbenzene	0,1351
1,3-dimethyl-4-ethylbenzene	0,1313
1,2-dimethyl-4-ethylbenzene	0,2521
1,3-dimethyl-2-ethylbenzene	0,0125
1,2-dimethyl-3-ethylbenzene	0,0061
1,2-ethyl-i-propylbenzene	0,0581
1,2-methyl-n-butylbenzene	0,1795
1,2,3,5-tetramethylbenzene	0,2404
5-methylindan	0,0422
4-methylindan	0,0201
2-methylindan	0,0215
1,3-methyl-n-butylbenzene	0,0048
1,3-di-i-propylbenzene	0,0326
s-pentylbenzene	0,0814
n-pentylbenzene	0,0041
1,2-di-i-propylbenzene	0,0097
1,4-di-i-propylbenzene	0,0094
tetrahydronaphthalene	0,0123
1-t-butyl-3,5-dimethylbenzene	0,0199

naphthalene	0,0633
I46	0,0037
I48	0,0056
1,3-di-n-propylbenzene	0,0233
A5	0,0138
A6	0,0151
1,3,5-triethylbenzene	0,0114
1,2,4-triethylbenzene	0,0051
1,4-methyl-n-pentylbenzene	0,0097
n-hexylbenzene	0,0062
1,2,3,4,5-pentamethylbenzene	0,0208
2-methylnaphthalene	0,082
1-methylnaphthalene	0,0435

Total Unknowns	0,424
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 132

CAS No. 68476-46-0

Component	Concentration % (m/m)
ethylene	0,0024
ethane	0,004
propylene	0,0061
propane	0,0032
i-butane	0,0233
butene-1	0,0191
isobutylene	0,0233
n-butane	0,0397
2,2-dimethylpropane	0,0984
c-butene-2	0,1261
3-methylbutene-1	0,2333
i-pentane	8,4776
1,4-pentadiene	0,0034
butyne-2	0,8252
2-methylbutene-1	1,7741
n-pentane	1,3987
isoprene	0,0711
t-pentene-2	2,2606
3,3-dimethylbutene-1	0,0232
c-pentene-2	1,2304
2-methylbutene-2	3,3082
1t,3-pentadiene	0,0622
3-methylbutadiene-1,2	0,0388
cyclopentadiene	0,0225
2,2-dimethylbutane	0,0353
cyclopentene	0,4232
4-methylpentene-1	0,1181
3-methylpentene-1	0,1947
cyclopentane	0,2395
2,3-dimethylbutane	1,0228
4-methyl-c-pentene-2	0,224
2,3-dimethylbutene-1	0,1163
2-methylpentane	4,6663
O8	0,3886
3-methylpentane	3,1107
2-methylpentene-1	0,4973
hexene-1	0,197
n-hexane	1,8244
t-hexene-3	0,3514
c-hexene-3	0,1079
t-hexene-2	0,7022
2-methylpentene-2	0,7658
4-methylcyclopentene	0,1747
3-methyl-c-pentene-2	0,552

3-methylcyclopentene	0,0954
O13	0,3355
3,3-dimethylpentene-1	0,8702
3-methyl-t-pentene-2	0,0169
methylcyclopentane	2,7184
2,4-dimethylpentane	0,3845
2,3,3-trimethylbutene-1	0,1893
2,2,3-trimethylbutane	0,0306
O17	0,0033
3,4-dimethylpentene-1	0,0039
4,4-dimethyl-c-pentene-2	0,014
2,4-dimethylpentene-1	0,0303
1-methylcyclopentene	0,8414
benzene	0,8614
3-ethylpentene-1	0,0241
2-methyl-c-hexene-3	0,0244
3,3-dimethylpentane	0,0624
5-methylhexene-1	0,0096
cyclohexane	0,2103
2-methyl-t-hexene-3	0,07
diolefin (hexadiene)	0,0075
2-ethyl-3-methylbutene-1	0,0076
4-methylhexene-1	0,0314
4-methyl-t/c-hexene-2	0,1447
2-methylhexane	2,3789
2,3-dimethylpentane	0,7263
5-methyl-t-hexene-2	0,0416
cyclohexene	0,0962
3-methylhexane	2,2795
3,4-dimethyl-c-pentene-2	0,0641
1c,3-dimethylcyclopentane	0,8402
1t,3-dimethylcyclopentane	0,7025
3-ethylpentane	0,2603
1t,2-dimethylcyclopentane	0,4998
heptene-1	0,029
2,2,4-trimethylpentane	0,0768
3-methyl-c-hexene-3	0,1171
t-heptene-3	0,4375
n-heptane	1,1465
3-methyl-c-hexene-2	0,5245
3-methyl-t-hexene-3	0,2032
t-heptene-2	0,183
3-ethylpentene-2	0,116
c-heptene-2	0,4141
2,3-dimethylpentene-2	0,1911
3-ethylcyclopentene	0,0057
O29	0,0189
1c,2-dimethylcyclopentane	0,4547
methylcyclohexane	0,9191
1,1,3-trimethylcyclopentane	0,1426
O33	0,0166
O34	0,0149

O36	0,4699
ethylcyclopentane	0,255
2,5-dimethylhexane	0,3981
2,4-dimethylhexane	0,009
1c,2t,4-trimethylcyclopentane	0,2659
3,3-dimethylhexane	0,0109
O38	0,0068
1t,2c,3-trimethylcyclopentane	0,1432
O39	0,0307
I1	0,0232
O40	0,4678
2,3,3-trimethylpentane	0,107
toluene	4,5913
O41	0,0426
O42	0,0129
O43	0,0378
2,3-dimethylhexane	0,3009
2-methyl-3-ethylpentane	0,0353
1,1,2-trimethylcyclopentane	0,0618
O44	0,1454
O46	1,1022
2-methylheptane	0,4112
4-methylheptane	0,043
3-methyl-3-ethylpentane	0,046
1c,2c,4-trimethylcyclopentane	0,1935
3-methylheptane	1,1068
3-ethylhexane	0,3984
1c,2t,3-trimethylcyclopentane	0,1654
1t,4-dimethylcyclohexane	0,1346
1,3-octadiene	0,0137
O48	0,0141
2,2,5-trimethylhexane	0,3514
3c-ethylmethylcyclopentane	0,0298
2,6-dimethylheptene-1	0,247
2t-ethylmethylcyclopentane	0,1249
1,1-methylethylcyclopentane	0,0528
2,2,4-trimethylhexane	0,064
t-octene-4	0,2184
3,5,5-trimethylhexene-1	0,0747
1c,2c,3-trimethylcyclopentane	0,1993
1t,3-dimethylcyclohexane	0,0596
n-octane	0,9265
O50	0,0764
I2	0,1981
i-propylcyclopentane	0,1513
2,4,4-trimethylhexane	0,0142
O52	0,0296
c-octene-2 (O53)	0,0192
N1	0,0099
2,2,3,4-tetramethylpentane	0,014
2,3,4-trimethylhexane	0,0987
N2	0,0217

N3	0,0325
2,3,3-trimethylhexene-1	0,0275
1c,2-dimethylcyclohexane	0,071
2,3,5-trimethylhexane	0,1297
2,2-dimethylheptane	0,0151
N4	0,2608
2,2,3-trimethylhexane	0,0318
2,4-dimethylheptane	0,119
4,4-dimethylheptane	0,03
ethylcyclohexane	0,0965
2,5-dimethylheptane	0,0269
3,3-dimethylheptane	0,2924
3,5-dimethylheptane	0,0443
2,6-dimethylheptane	0,0371
1,1,3-trimethylcyclohexane	0,078
2,4-dimethylheptene-1	0,0587
N10	0,0167
ethylbenzene	1,2491
1c,2t,4t-trimethylcyclohexane	0,1025
2-methyloctene-1	0,0222
I4	0,0178
2-methyloctene-2	0,0194
1,3-dimethylbenzene	4,2746
1,4-dimethylbenzene	1,6005
N14	0,0904
I5	0,0346
4-ethylheptane	0,0343
4-methyloctane	0,1045
2-methyloctane	0,0171
N15	0,3889
3-ethylheptane	0,5835
1c,2t,3-trimethylcyclohexane	0,0402
3-methyloctane	0,0366
1c,2t,4c-trimethylcyclohexane	0,1208
1,1,2-trimethylcyclohexane	0,5591
1,2-dimethylbenzene	1,9158
I6	0,0155
N18	0,0288
nonene-1	0,0837
I8	0,0708
N20	0,0534
I9	0,0612
i-butylcyclopentane	0,0444
N21	0,0239
t-7-methyloctene-3	0,0784
N22	0,0537
t-nonene-3	0,0357
I10	0,0423
n-nonane	0,3109
1,1-methylethylcyclohexane	0,0445
3,7-dimethyloctene-1	0,0459
t-2,2,5,5-tetramethylhexene-3	0,014

N26	0,0333
c-nonene-3	0,062
i-propylcyclohexane	0,0318
I12	0,0268
2,2-dimethyloctane	0,011
2,4-dimethyloctane	0,0554
N28	0,0128
N29	0,0563
2,6-dimethyloctane	0,0871
n-butylcyclopentane	0,0347
I13	0,0744
I14	0,0109
N31	0,0842
n-propylbenzene	0,2485
3,6-dimethyloctane	0,0275
3-methyl-5-ethylheptane	0,0144
1,3-methylethylbenzene	1,2476
1,4-methylethylbenzene	0,4599
1,3,5-trimethylbenzene	0,6215
2,3-dimethyloctane	0,0513
5-methylnonane	0,0644
I17	0,1312
1,2-methylethylbenzene	0,341
2-methylnonane	0,1979
3-ethyloctane	0,0285
N35	0,0113
3-methylnonane	0,1769
I19	0,0045
1,2,4-trimethylbenzene	1,897
I20	0,0302
I22	0,0303
I21	0,0213
decene-1	0,0234
2,3-dimethyloctene-2	0,0152
I24	0,0061
i-butylbenzene	0,0284
I25	0,0139
sec-butylbenzene	0,0157
n-decane	0,1442
I26	0,0096
N38	0,012
1,2,3-trimethylbenzene	0,4047
N39	0,0333
1,4-methyl-i-propylbenzene	0,0074
I27	0,0216
I28	0,0174
I29	0,014
2-3-dihydroindene	0,3531
I30	0,0413
1,2-methyl-i-propylbenzene	0,0325
3-ethylnonane	0,0094
I31	0,0676

I32	0,0333
1,3-diethylbenzene	0,033
1,3-methyl-n-propylbenzene	0,1275
1,4-diethylbenzene	0,2998
n-butylbenzene	0,1506
1,3-dimethyl-5-ethylbenzene	0,0728
1,2-diethylbenzene	0,3359
t-decahydronaphthalene	0,0313
N41	0,0176
1,2-methyl-n-propylbenzene	0,0372
I35	0,0953
I37	0,0653
I38	0,0684
1,4,dimethyl-2-ethylbenzene	0,0743
A3	0,2338
1,3-dimethyl-4-ethylbenzene	0,3143
I40	0,0906
1,2-dimethyl-4-ethylbenzene	0,5604
I41	0,0299
1,3-dimethyl-2-ethylbenzene	0,0075
I42	0,0071
I43	0,0068
undecene-1	0,012
1,4-methyl-t-butylbenzene	0,011
1,2-dimethyl-3-ethylbenzene	0,0313
1,2-ethyl-i-propylbenzene	0,1059
n-undecane	0,1242
1,2-methyl-n-butylbenzene	0,2324
1,2,3,5-tetramethylbenzene	0,3067
1,2-methyl-t-butylbenzene	0,0195
5-methylindan	0,3587
4-methylindan	0,0751
1,2-ethyl-n-propylbenzene	0,0268
2-methylindan	0,0995
1,3-methyl-n-butylbenzene	0,3653
s-pentylbenzene	0,1972
n-pentylbenzene	0,1567
1t-M-2-(4-MP)cyclopentane	0,0493
1,2-di-i-propylbenzene	0,0491
1,4-di-i-propylbenzene	0,0731
tetrahydronaphthalene	0,0392
naphthalene	0,044
1-t-butyl-3,5-dimethylbenzene	0,0892
1,4-ethyl-t-butylbenzene	0,3262
I45	0,0751
I46	0,176
I47	0,095
I48	0,0934
1,3-di-n-propylbenzene	0,2055
A5	0,0764
A6	0,0126
n-dodecane	0,1352

1,3,5-triethylbenzene	0,0355
1,2,4-triethylbenzene	0,0673
1,4-methyl-n-pentylbenzene	0,19
n-hexylbenzene	0,0976
I49	0,0282
1,2,3,4,5-pentamethylbenzene	0,1053
2-methylnaphthalene	0,2969
1-methylnaphthalene	0,0482
n-tridecane	0,117

Total Unknowns	1,915
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 133

CAS No. 64741-64-6

Component	Concentration % (m/m)
i-butane	0,262
n-butane	4,936
t-butene-2	0,016
i-pentane	3,894
n-pentane	0,028
2-methylbutene-2	0,003
2,2-dimethylbutane	0,006
cyclopentane	0,001
2,3-dimethylbutane	1,629
2-methylpentane	0,528
3-methylpentane	0,251
n-hexane	0,009
2,4-dimethylpentane	1,915
2,2,3-trimethylbutane	0,068
2-methylhexane	0,188
2,3-dimethylpentane	0,966
3-methylhexane	0,120
2,2,4-trimethylpentane	40,869
n-heptane	0,006
2,2-dimethylhexane	0,011
2,5-dimethylhexane	3,440
2,2,3-trimethylpentane	1,097
2,4-dimethylhexane	4,225
2,3,4-trimethylpentane	13,037
2,3,3-trimethylpentane	9,624
2,3-dimethylhexane	3,085
2-methyl-3-ethylpentane	0,134
2-methylheptane	0,128
*2-ethylhexene-1	0,046
4-methylheptane	0,268
3-methyl-3-ethylpentane	0,299
3-methylheptane	0,163
3-ethylhexane	0,015

2,2,5-trimethylhexane	2,162
2,2,4-trimethylhexane	0,044
I2	0,089
2,3,4-trimethylhexane	0,312
2,3,5-trimethylhexane	0,039
2,4-dimethylheptane	0,038
3,5-dimethylheptane	0,099
2,6-dimethylheptane	0,009
N11	0,013
3,4-dimethylheptane*	0,039
I6	0,075
I7	0,128
I9	0,113
I10	0,066
n-nonane	0,009
N27	0,005
I12	0,044
2,2-dimethyloctane	0,009
2,4-dimethyloctane	0,009
N29	0,005
2,6-dimethyloctane	0,006
2,5-dimethyloctane	0,009
I13	0,071
3,3-dimethyloctane	0,007
2,3-dimethyloctane	0,006
I17	0,490
I18	0,118
I20	0,005
I21	0,042
I22	0,035
I24	0,072
I25	0,028
I26	0,013
I27	0,066
I28	0,012
I29	0,007
sec-butylcyclohexane	0,007
I30	0,011
3-ethylnonane	0,772
I31	0,195

I32	0,376
I33	0,139
I34	0,063
I35	0,067
I36	0,492
I37	0,080
I38	0,084
I39	0,453
I40	0,052
I41	0,032
I42	0,389
I43	0,075
n-undecane	0,038
I43	0,034
n-dodecane	0,006
n-tridecane	0,008
Total Unknowns	1,070
TOTAL	98,930

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 142

CAS No. 64742-49-0

Component	Concentration % (m/m)
i-butane	18,4246
n-butane	0,1037
2,2-dimethylpropane	0,005
i-pentane	7,582
1,4-pentadiene	0,0138
n-pentane	17,253
2,2-dimethylbutane	0,7093
cyclopentane	2,869
2,3-dimethylbutane	1,8401
2-methylpentane	10,9559
4-methyl-t-pentene-2	0,0355
O8	0,0089
3-methylpentane	6,512
2-methylpentene-1	0,0211
n-hexane	18,4246
c-hexene-3	0,0193
2,2-dimethylpentane	0,4456
methylcyclopentane	11,9463
2,4-dimethylpentane	0,9254
2,2,3-trimethylbutane	0,0896
benzene	2,7446
3,3-dimethylpentane	0,1713
cyclohexane	12,129
2-methylhexane	1,3637
2,3-dimethylpentane	0,6645
1,1-dimethylcyclopentane	0,553
3-methylhexane	0,9538
1c,3-dimethylcyclopentane	0,504
1t,3-dimethylcyclopentane	0,3432
3-ethylpentane	0,0559
1t,2-dimethylcyclopentane	0,5518
n-heptane	0,1434
methylcyclohexane	0,0393

toluene	0,0081
Total Unknowns	-18,410
TOTAL	118,410

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 143

CAS No. 64741-55-5

Component	Concentration % (m/m)
3-methylbutene-1	0,0104
i-pentane	1,1775
pentene-1	0,1887
2-methylbutene-1	0,6476
n-pentane	0,5238
isoprene	0,0177
t-pentene-2	1,1196
3,3-dimethylbutene-1	0,0259
c-pentene-2	0,6448
2-methylbutene-2	2,763
1t,3-pentadiene	0,035
3-methylbutadiene-1,2	0,0096
2,2-dimethylbutane	0,0408
cyclopentadiene	0,0176
cyclopentene	0,3751
4-methylpentene-1	0,1961
3-methylpentene-1	0,2898
cyclopentane	0,1938
2,3-dimethylbutane	1,0219
4-methyl-c-pentene-2	0,3292
2,3-dimethylbutene-1	0,2056
2-methylpentane	4,8221
4-methyl-t-pentene-2	0,6966
3-methylpentane	3,0222
2-methylpentene-1	1,0336
hexene-1	0,3749
1c/t,4-hexadiene	0,0021
n-hexane	1,8911
t-hexene-3	0,5858
c-hexene-3	0,186
t-hexene-2	1,1442
2-methylpentene-2	1,7609
4-methylcyclopentene	0,3728
3-methyl-c-pentene-2	1,0108
3-methylcyclopentene	0,2067
c-hexene-2	0,5594
O14	0,0051
3,3-dimethylpentene-1	1,5484
4,4-dimethyl-t-pentene-2	0,0238
methylcyclopentane	2,3423
2,4-dimethylpentane	0,3038
2,3,3-trimethylbutene-1	0,3699
cyclic diolefin or triolefin	0,0045
2,2,3-trimethylbutane	0,0438

O17	0,0149
3,4-dimethylpentene-1	0,0061
4,4-dimethyl-c-pentene-2	0,0326
2,4-dimethylpentene-1	0,0543
diolefin	0,0257
1-methylcyclopentene	1,4991
benzene	0,919
3-ethylpentene-1	0,0345
3-methylhexene-1	0,0349
2-methyl-c-hexene-3	0,1167
5-methylhexene-1	0,017
cyclohexane	0,3319
2-methyl-t-hexene-3	0,1169
diolefin (hexadiene)	0,0175
2-ethyl-3-methylbutene-1	0,0179
4-methylhexene-1	0,059
4-methyl-t/c-hexene-2	0,2373
2-methylhexane	2,081
2,3-dimethylpentane	0,7258
5-methyl-t-hexene-2	0,0657
cyclohexene	0,1852
3-methylhexane	2,0105
3,4-dimethyl-c-pentene-2	0,1086
1c,3-dimethylcyclopentane	0,9571
1t,3-dimethylcyclopentane	0,7879
3-ethylpentane	0,327
1t,2-dimethylcyclopentane	0,5216
2,2,4-trimethylpentane	0,1052
heptene-1	0,0452
2-ethylpentene-1	0,1299
O25	0,0061
3-methyl-c-hexene-3	0,2086
t-heptene-3	0,9289
n-heptane	1,7907
3-methyl-c-hexene-2	0,9609
3-methyl-t-hexene-3	0,3674
t-heptene-2	0,3043
3-ethylpentene-2	0,2153
c-heptene-2	0,8629
2,3-dimethylpentene-2	0,3561
3-ethylcyclopentene	0,0149
O29	0,0572
1c,2-dimethylcyclopentane	0,5687
methylcyclohexane	1,3358
1,1,3-trimethylcyclopentane	0,1991
O33	0,0606
O35	0,0537
ethylcyclopentane	0,5861
2,5-dimethylhexane	0,2997
2,2,3-trimethylpentane	0,5737
2,4-dimethylhexane	0,0256
1c,2t,4-trimethylcyclopentane	0,3606

3,3-dimethylhexane	0,0209
O38	0,0191
1t,2c,3-trimethylcyclopentane	0,2621
O39	0,1025
I1	0,0662
O40	1,2891
2,3,3-trimethylpentane	0,3352
toluene	6,0489
O41	0,0939
O42	0,0232
O43	0,0751
2,3-dimethylhexane	0,4625
2-methyl-3-ethylpentane	0,0418
1,1,2-trimethylcyclopentane	0,1664
O44	0,4611
O46	1,199
2-methylheptane	0,4296
4-methylheptane	0,0569
3,4-dimethylhexane	0,053
1c,2c,4-trimethylcyclopentane	0,3447
3-methylheptane	1,1007
3-ethylhexane	0,568
1c,2t,3-trimethylcyclopentane	0,2331
1t,4-dimethylcyclohexane	0,2265
1,3-octadiene	0,0281
O48	0,0153
1,1-dimethylcyclohexane	0,0309
2,2,5-trimethylhexane	0,0233
3c-ethylmethylcyclopentane	0,525
2,6-dimethylheptene-1	0,0719
3t-ethylmethylcyclopentane	0,3407
2t-ethylmethylcyclopentane	0,1913
*octene-1	0,1105
2,2,4-trimethylhexane	0,1462
t-octene-4	0,5706
3,5,5-trimethylhexene-1	0,1705
t-octene-3	0,1554
1c,2c,3-trimethylcyclopentane	0,3177
1t,3-dimethylcyclohexane	0,1071
n-octane	1,5593
t-octene-2	0,2057
O50	0,646
I2	0,2786
i-propylcyclopentane	0,0567
2,4,4-trimethylhexane	0,0142
O52	0,0609
c-octene-2 (O53)	0,0806
N1	0,0405
2,2,3,4-tetramethylpentane	0,0207
2,3,4-trimethylhexane	0,1418
N2	0,0843
N3	0,1273

2,3,3-trimethylhexene-1	0,1188
1c,2-dimethylcyclohexane	0,1128
2,3,5-trimethylhexane	0,1529
2,2-dimethylheptane	0,0315
N4	0,4379
2,2,3-trimethylhexane	0,038
2,4-dimethylheptane	0,1652
4,4-dimethylheptane	0,0545
ethylcyclohexane	0,3623
*1c,3c,5-trimethylcyclohexane	0,0129
2,5-dimethylheptane	0,0641
3,3-dimethylheptane	0,4213
2,6-dimethylheptane	0,0529
1,1,3-trimethylcyclohexane	0,1456
2,4-dimethylheptene-1	0,1487
N11	0,0454
N10	0,0624
ethylbenzene	1,6431
1c,2t,4t-trimethylcyclohexane	0,1338
I3	0,1039
2-methyloctene-1	0,0481
I4	0,0731
2-methyloctene-2	0,0464
N12	0,0521
1,3-dimethylbenzene	4,3664
1,4-dimethylbenzene	1,8614
N14	0,1314
I5	0,0509
4-ethylheptane	0,0717
4-methyloctane	0,186
2-methyloctane	0,0535
N15	0,3862
3-ethylheptane	0,6546
1c,2t,3-trimethylcyclohexane	0,0887
3-methyloctane	0,073
1c,2t,4c-trimethylcyclohexane	0,158
1,1,2-trimethylcyclohexane	0,5577
1,2-dimethylbenzene	2,2145
I6	0,0412
N18	0,0617
N19	0,1442
nonene-1	0,1427
I8	0,0724
N20	0,091
I9	0,0835
i-butylcyclopentane	0,1282
N21	0,0539
t-7-methyloctene-3	0,0942
N22	0,1431
N23/c-nonene-2	0,1075
t-nonene-3	0,1301
I10	0,0181

n-nonane	0,5791
1,1-methylethylcyclohexane	0,1335
3,7-dimethyloctene-1	0,0662
N25	0,0531
t-2,2,5,5-tetramethylhexene-3	0,0817
N26	0,0972
c-nonene-3	0,1518
i-propylcyclohexane	0,0837
I12	0,0728
2,2-dimethyloctane	0,0258
2,4-dimethyloctane	0,1779
N29	0,0298
2,6-dimethyloctane	0,1657
2,5-dimethyloctane	0,1356
n-butylcyclopentane	0,0757
N30	0,1161
I14	0,0303
3,3-dimethyloctane	0,1659
N31	0,0247
n-propylbenzene	0,0815
3,6-dimethyloctane	0,3985
N32	0,0828
3-methyl-5-ethylheptane	0,0298
1,3-methylethylbenzene	1,2836
1,4-methylethylbenzene	0,4824
N33	0,0317
1,3,5-trimethylbenzene	0,5292
2,3-dimethyloctane	0,0852
5-methylnonane	0,1165
I17	0,1401
1,2-methylethylbenzene	0,3578
2-methylnonane	0,1711
3-ethyloctane	0,0358
N35	0,0528
3-methylnonane	0,1603
N36	0,0251
3-ethyl-2-methylheptene-2	0,0349
I18	0,0099
I19	0,0166
1,2,4-trimethylbenzene	1,2015
t-butylbenzene	0,0206
I20	0,0512
i-butylcyclohexane	0,0509
I21	0,0181
I23	0,0151
decene-1	0,0254
1t-methyl-2-n-propylcyclohexan	0,0102
2,3-dimethyloctene-2	0,0311
I24	0,0129
i-butylbenzene	0,0433
I25	0,0171
sec-butylbenzene	0,0189

n-decane	0,1486
I26	0,0106
N38	0,0332
1,2,3-trimethylbenzene	0,188
N39	0,0299
I27	0,026
I28	0,0311
2-3-dihydroindene	0,1554
I30	0,0222
1,2-methyl-i-propylbenzene	0,0355
I31	0,0326
I32	0,0165
1,3-diethylbenzene	0,0095
1,3-methyl-n-propylbenzene	0,0298
1,4-diethylbenzene	0,0716
n-butylbenzene	0,0324
1,3-dimethyl-5-ethylbenzene	0,0182
1,2-diethylbenzene	0,0512
t-decahydronaphthalene	0,0082
N41	0,0091
1,2-methyl-n-propylbenzene	0,0081
I35	0,0208
I37	0,0091
I38	0,0095
A3	0,0393
1,3-dimethyl-4-ethylbenzene	0,0348
I40	0,0089
1,2-dimethyl-4-ethylbenzene	0,0578
I41	0,0081
1,2-dimethyl-3-ethylbenzene	0,0076
1,2-ethyl-i-propylbenzene	0,004
n-undecane	0,0116
1,2-methyl-n-butylbenzene	0,0125
1,2,3,5-tetramethylbenzene	0,0164
5-methylindan	0,0109
1,3-methyl-n-butylbenzene	0,0091
s-pentylbenzene	0,0058
1,4-ethyl-t-butylbenzene	0,0116
2-methylnaphthalene	0,0034

Total Unknowns	0,481
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 144

CAS No. 86290-81-5

Component	Concentration % (m/m)
propane	0,0131
i-butane	2,773
butene-1	0,0128
isobutylene	0,0235
n-butane	3,4018
t-butene-2	0,1913
2,2-dimethylpropane	0,0271
c-butene-2	0,096
3-methylbutene-1	0,1981
i-pentane	10,5012
pentene-1	0,5741
2-methylbutene-1	1,4852
n-pentane	3,1087
isoprene	0,0533
t-pentene-2	1,3474
3,3-dimethylbutene-1	0,0183
c-pentene-2	0,7167
2-methylbutene-2	2,445
1t,3-pentadiene	0,0411
3-methylbutadiene-1,2	0,0161
2,2-dimethylbutane	0,8034
cyclopentene	0,2307
4-methylpentene-1	0,0549
3-methylpentene-1	0,0818
cyclopentane	0,5712
2,3-dimethylbutane	0,9655
methyl-t-butylether	0,1264
4-methyl-c-pentene-2	0,0268
2,3-dimethylbutene-1	0,0728
2-methylpentane	4,2318
4-methyl-t-pentene-2	0,2125
3-methylpentane	2,704
2-methylpentene-1	0,2578
hexene-1	0,0874
n-hexane	1,769
t-hexene-3	0,1549
c-hexene-3	0,0493
t-hexene-2	0,3072
2-methylpentene-2	0,4828
4-methylcyclopentene	0,0867
3-methyl-c-pentene-2	0,2851
3-methylcyclopentene	0,0537
c-hexene-2	0,1537
3,3-dimethylpentene-1	0,4498

2,2-dimethylpentane	0,029
methylcyclopentane	1,6538
2,4-dimethylpentane	0,1071
2,3,3-trimethylbutene-1	0,122
2,2,3-trimethylbutane	0,0185
O17	0,0115
4,4-dimethyl-c-pentene-2	0,017
2,4-dimethylpentene-1	0,0081
diolefin	0,4085
benzene	0,665
3-methylhexene-1	0,0148
3,3-dimethylpentane	0,0361
2-methyl-c-hexene-3	0,0323
cyclohexane	0,5592
2-methyl-t-hexene-3	0,0282
diolefin (hexadiene)	0,0057
2-ethyl-3-methylbutene-1	0,0059
4-methylhexene-1	0,0172
4-methyl-t/c-hexene-2	0,0516
2-methylhexane	0,7833
2,3-dimethylpentane	0,3192
5-methyl-t-hexene-2	0,061
cyclohexene	0,0509
3-methylhexane	1,0653
1,6-heptadiene	0,0318
1c,3-dimethylcyclopentane	0,2954
1t,3-dimethylcyclopentane	0,2512
3-ethylpentane	0,1469
1t,2-dimethylcyclopentane	0,2756
2,2,4-trimethylpentane	0,012
2-ethylpentene-1	0,0349
3-methyl-c-hexene-3	0,047
t-heptene-3	0,1793
n-heptane	1,463
3-methyl-c-hexene-2	0,1979
3-methyl-t-hexene-3	0,0772
t-heptene-2	0,0633
3-ethylpentene-2	0,0514
c-heptene-2	0,1735
2,3-dimethylpentene-2	0,0814
O29	0,0141
1c,2-dimethylcyclopentane	0,1202
methylcyclohexane	0,7499
2,2-dimethylhexane	0,1253
O34	0,0142
O36	0,0131
2,5-dimethylhexane	0,1833
ethylcyclopentane	0,1408
2,2,3-trimethylpentane	0,2479
1c,2t,4-trimethylcyclopentane	0,1146
3,3-dimethylhexane	0,0536
1t,2c,3-trimethylcyclopentane	0,0987

O39	0,0185
2,3,4-trimethylpentane	0,0295
I1	0,2214
O40	0,0617
toluene	13,1499
O43	0,0427
2,3-dimethylhexane	0,2166
2-methyl-3-ethylpentane	0,0428
1,1,2-trimethylcyclopentane	0,0444
O44	0,091
2-methylheptane	0,6309
4-methylheptane	0,2558
3,4-dimethylhexane	0,0439
3-methyl-3-ethylpentane	0,0461
1c,2c,4-trimethylcyclopentane	0,0864
3-methylheptane	0,6007
3-ethylhexane	0,3751
1t,4-dimethylcyclohexane	0,1041
1,1-dimethylcyclohexane	0,0326
3c-ethylmethylcyclopentane	0,1207
2,6-dimethylheptene-1	0,0128
3t-ethylmethylcyclopentane	0,0872
2t-ethylmethylcyclopentane	0,0824
1,1-methylethylcyclopentane	0,0181
*octene-1	0,012
2,2,4-trimethylhexane	0,0267
1t,2-dimethylcyclohexane	0,1574
t-octene-4	0,0333
1c,2c,3-trimethylcyclopentane	0,0848
1t,3-dimethylcyclohexane	0,0178
n-octane	0,882
O50	0,0366
I2	0,1026
i-propylcyclopentane	0,0607
N1	0,0185
N2	0,0327
2,3,3-trimethylhexene-1	0,0173
N3	0,0153
1c,2-dimethylcyclohexane	0,0165
2,3,5-trimethylhexane	0,0339
2,2-dimethylheptane	0,0634
2,2,3-trimethylhexane	0,1917
2,4-dimethylheptane	0,1008
ethylcyclohexane	0,1262
3,5-dimethylheptane	0,1228
2,6-dimethylheptane	0,0465
1,1,3-trimethylcyclohexane	0,0337
N7	0,028
ethylbenzene	2,6297
1,3-dimethylbenzene	6,2724
1,4-dimethylbenzene	2,7585
N14	0,065

I5	0,0297
4-ethylheptane	0,0229
4-methyloctane	0,0575
2-methyloctane	0,1518
3-ethylheptane	0,2071
1c,2t,3-trimethylcyclohexane	0,0233
1c,2t,4c-trimethylcyclohexane	0,0531
3-methyloctane	0,2345
1,1,2-trimethylcyclohexane	0,0225
1,2-dimethylbenzene	3,3768
I8	0,1126
N20	0,0196
I9	0,0369
i-butylcyclopentane	0,0246
N21	0,0139
t-7-methyloctene-3	0,0373
N22	0,0303
t-nonene-3	0,022
I10	0,0221
n-nonane	0,3859
N25	0,0229
t-2,2,5,5-tetramethylhexene-3	0,0125
N26	0,2055
N27	0,047
i-propylcyclohexane	0,027
I12	0,0219
2,4-dimethyloctane	0,0365
2,6-dimethyloctane	0,0605
2,5-dimethyloctane	0,0374
n-butylcyclopentane	0,022
N30	0,0323
3,3-dimethyloctane	0,0781
N31	0,0117
n-propylbenzene	0,0219
3,6-dimethyloctane	0,7261
3-methyl-5-ethylheptane	0,0405
N32	0,0113
1,3-methylethylbenzene	2,004
1,4-methylethylbenzene	0,8853
N33	0,0413
1,3,5-trimethylbenzene	0,9423
N34	0,0113
5-methylnonane	0,029
I17	0,0541
1,2-methylethylbenzene	0,7564
2-methylnonane	0,0173
3-ethyloctane	0,0132
N35	0,0115
3-methylnonane	0,0624
1,2,4-trimethylbenzene	2,7395
i-butylcyclohexane	0,0307
I22	0,0237

I23	0,0092
I24	0,016
I25	0,0413
sec-butylbenzene	0,0438
n-decane	0,0956
N38	0,0136
1,2,3-trimethylbenzene	0,5218
N39	0,0815
1,4-methyl-i-propylbenzene	0,0293
2-3-dihydroindene	0,197
I30	0,0171
1,2-methyl-i-propylbenzene	0,0223
3-ethylnonane	0,022
I31	0,0232
1,3-methyl-n-propylbenzene	0,0751
1,4-diethylbenzene	0,2051
1,4-methyl-n-propylbenzene	0,1159
n-butylbenzene	0,0458
1,3-dimethyl-5-ethylbenzene	0,1997
1,2-diethylbenzene	0,0181
N41	0,0135
I35	0,0736
1,3-dimethyl-4-ethylbenzene	0,1254
1,2-dimethyl-4-ethylbenzene	0,123
1,3-dimethyl-2-ethylbenzene	0,2141
I42	0,0187
1,2-dimethyl-3-ethylbenzene	0,0472
n-undecane	0,012
1,2-methyl-n-butylbenzene	0,1136
1,2,3,5-tetramethylbenzene	0,1571
4-methylindan	0,0378
2-methylindan	0,01
1,3-methyl-n-butylbenzene	0,0415
n-pentylbenzene	0,0525
naphthalene	0,0868
A5	0,0081
2-methylnaphthalene	0,0279
1-methylnaphthalene	0,0157

Total Unknowns	0,113
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 146

CAS No. 64741-54-4

Component	Concentration % (m/m)
t-heptene-3	0,0056
n-heptane	0,0072
c-heptene-2	0,011
O29	0,0115
1c,2-dimethylcyclopentane	0,0344
2,2-dimethylhexane	0,0078
ethylcyclopentane	0,0112
2,2,3-trimethylpentane	0,0413
O37	0,0302
O38	0,0071
1t,2c,3-trimethylcyclopentane	0,0165
O39	0,0058
2,3,4-trimethylpentane	0,083
I1	0,029
toluene	0,4651
O41	0,0217
O42	0,0066
O43	0,0189
2,3-dimethylhexane	0,0064
2-methyl-3-ethylpentane	0,0333
1,1,2-trimethylcyclopentane	0,0851
O46	0,1553
*2-ethylhexene-1	0,0558
4-methylheptane	0,0103
3-methyl-3-ethylpentane	0,0128
1c,2c,4-trimethylcyclopentane	0,1006
3-methylheptane	0,155
1c,2t,3-trimethylcyclopentane	0,149
3-ethylhexane	0,0734
1t,4-dimethylcyclohexane	0,0201
1,3-octadiene	0,012
O48	0,0096
1,1-dimethylcyclohexane	0,0067

2,2,5-trimethylhexane	0,0212
3c-ethylmethylcyclopentane	0,2116
2,6-dimethylheptene-1	0,1437
2t-ethylmethylcyclopentane	0,0917
1,1-methylethylcyclopentane	0,0403
2,2,4-trimethylhexane	0,052
1t,2-dimethylcyclohexane	0,2076
t-octene-4	0,1054
1c,2c,3-trimethylcyclopentane	0,2312
1t,3-dimethylcyclohexane	0,0723
n-octane	0,5758
t-octene-2	0,147
I2	0,3863
2,4,4-trimethylhexane	0,1769
O52	0,0654
c-octene-2 (O53)	0,0647
N1	0,0799
2,2,3,4-tetramethylpentane	0,0551
2,3,4-trimethylhexane	0,1152
N2	0,0987
N3	0,1482
2,3,3-trimethylhexene-1	0,0139
1c,2-dimethylcyclohexane	0,1484
2,3,5-trimethylhexane	0,1119
2,2-dimethylheptane	0,1098
N4	0,3349
2,2,3-trimethylhexane	0,0327
2,4-dimethylheptane	0,1223
4,4-dimethylheptane	0,0747
ethylcyclohexane	0,303
*1c,3c,5-trimethylcyclohexane	0,028
2,5-dimethylheptane	0,0854
3,5-dimethylheptane	0,3847
1,1,3-trimethylcyclohexane	0,1242
N7	0,1726
N8	0,0736
N11	0,0901
I3	0,1095
ethylbenzene	1,2894
1c,2t,4t-trimethylcyclohexane	0,2098

I4	0,1652
2-methyloctene-1	0,0965
2-methyloctene-2	0,1634
N12	0,1024
2,3-dimethylheptane	0,1691
1,3-dimethylbenzene	4,5126
1,4-dimethylbenzene	2,0022
N14	0,1581
I5	0,2605
4-ethylheptane	0,347
N15	0,157
4-methyloctane	0,4143
2-methyloctane	0,8258
1c,2t,3-trimethylcyclohexane	0,1782
3-ethylheptane	0,0122
3-methyloctane	0,2847
1c,2t,4c-trimethylcyclohexane	0,6702
1,1,2-trimethylcyclohexane	0,3582
I6	0,1521
1,2-dimethylbenzene	3,1647
I7	0,0997
N18	0,1161
nonene-1	0,2791
I8	0,2773
N20	0,6239
I9	0,358
i-butylcyclopentane	0,1234
N21	0,4901
N22	0,3916
t-nonene-3	0,2874
I10	0,3552
n-nonane	0,4504
1,1-methylethylcyclohexane	0,3491
N25	0,3746
i-propylbenzene	0,2553
N26	0,1553
c-nonene-3	0,4009
I12	0,2298
2,4-dimethyloctane	0,5943
N29	0,0972

2,6-dimethyloctane	0,4549
2,5-dimethyloctane	0,4675
n-butylcyclopentane	0,2711
N30	0,4373
3,3-dimethyloctane	0,6776
N31	0,3984
n-propylbenzene	1,0692
3,6-dimethyloctane	0,2036
3-methyl-5-ethylheptane	0,2992
N32	0,2535
1,3-methylethylbenzene	4,9079
1,4-methylethylbenzene	1,8581
N33	0,1148
1,3,5-trimethylbenzene	2,7319
2,3-dimethyloctane	0,2951
5-methylnonane	0,4465
I17	0,487
1,2-methylethylbenzene	2,2413
2-methylnonane	0,289
3-ethyloctane	0,0978
N35	0,2769
3-methylnonane	0,7672
N36	0,2184
3-ethyl-2-methylheptene-2	0,2585
t-butylbenzene	0,1473
1,2,4-trimethylbenzene	8,4321
I20	0,1425
i-butylcyclohexane	0,3074
I21	0,5378
I23	0,1618
N37	0,1261
decene-1	0,1758
2,3-dimethyloctene-2	0,6333
I24	0,2951
i-butylbenzene	0,2834
I25	0,2179
sec-butylbenzene	0,2207
n-decane	0,6263
N38	0,5669
1,2,3-trimethylbenzene	2,3485

N39	0,4239
1,4-methyl-i-propylbenzene	0,143
I27	0,2001
I28	0,0808
I29	0,0586
2-3-dihydroindene	1,8401
I30	0,2363
1,2-methyl-i-propylbenzene	0,2471
3-ethylnonane	0,1289
N40	0,4682
I31	0,4256
1,3-diethylbenzene	0,2
1,3-methyl-n-propylbenzene	0,6252
1,4-diethylbenzene	1,5927
n-butylbenzene	0,6953
1,3-dimethyl-5-ethylbenzene	0,41
1,2-diethylbenzene	1,586
I34	0,289
t-decahydronaphthalene	0,2074
N41	0,3265
I35	0,7337
I36	0,3515
I37	0,1106
I38	0,2787
A3	0,1659
1,4,dimethyl-2-ethylbenzene	1,5732
1,3-dimethyl-4-ethylbenzene	1,5992
I40	0,4541
1,2-dimethyl-4-ethylbenzene	3,0189
I41	0,1413
1,3-dimethyl-2-ethylbenzene	0,1708
I42	0,0947
I43	0,1155
undecene-1	0,0409
1,4-methyl-t-butylbenzene	0,2005
1,2-dimethyl-3-ethylbenzene	0,2904
1,2-ethyl-i-propylbenzene	0,6926
n-undecane	0,4034
1,4-ethyl-i-propylbenzene	0,0845
1,2-methyl-n-butylbenzene	1,0451

1,2,3,5-tetramethylbenzene	1,1402
1,2-methyl-t-butylbenzene	0,0656
5-methylindan	1,6999
4-methylindan	0,2012
1,2-ethyl-n-propylbenzene	0,1316
2-methylindan	0,451
1,3-di-i-propylbenzene	1,5107
s-pentylbenzene	0,8028
n-pentylbenzene	0,5251
1,2-di-i-propylbenzene	0,211
1,4-di-i-propylbenzene	0,2329
tetrahydronaphthalene	0,2274
1-t-butyl-3,5-dimethylbenzene	0,2638
naphthalene	0,6813
1,4-ethyl-t-butylbenzene	0,1359
I45	0,2347
I46	0,6679
I47	0,3109
I48	0,3727
1,3-di-n-propylbenzene	0,6702
A5	0,1348
A6	0,2292
1,2,4-triethylbenzene	0,1107
1,4-methyl-n-pentylbenzene	0,2213
n-hexylbenzene	0,0731
1,2,3,4,5-pentamethylbenzene	0,1014
2-methylnaphthalene	0,1881
Total Unknowns	2,797
TOTAL	97,203

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 156

CAS No. 64742-48-9

Component	Concentration % (m/m)
propane	0,0027
i-butane	0,0909
n-butane	0,0095
i-pentane	0,1829
n-pentane	0,0496
2,2-dimethylbutane	0,0106
cyclopentane	0,0065
2,3-dimethylbutane	0,1099
2-methylpentane	0,2208
3-methylpentane	0,1438
n-hexane	0,1982
2,2-dimethylpentane	0,0358
methylcyclopentane	0,3668
2,4-dimethylpentane	0,1551
2,2,3-trimethylbutane	0,013
benzene	0,2348
3,3-dimethylpentane	0,0446
cyclohexane	1,1864
2-methylhexane	1,0274
2,3-dimethylpentane	0,496
1,1-dimethylcyclopentane	0,1638
3-methylhexane	1,3567
1c,3-dimethylcyclopentane	0,4234
1t,3-dimethylcyclopentane	0,3975
3-ethylpentane	0,1283
1t,2-dimethylcyclopentane	0,7442
2,2,4-trimethylpentane	0,0655
n-heptane	4,0768
c-heptene-3	0,0188
methylcyclohexane	5,5768
2,2-dimethylhexane	0,3777
ethylcyclopentane	0,5586
2,5-dimethylhexane	0,4105
2,2,3-trimethylpentane	0,7373
1c,2t,4-trimethylcyclopentane	0,4335
3,3-dimethylhexane	0,1073
1t,2c,3-trimethylcyclopentane	0,5164
2,3,4-trimethylpentane	0,1429
O39	0,0384
toluene	3,961
2,3-dimethylhexane	0,5743
2-methyl-3-ethylpentane	0,2079
2-methylheptane	2,6891
4-methylheptane	0,7958

3-methyl-3-ethylpentane	0,1028
3,4-dimethylhexane	0,1287
1c,2c,4-trimethylcyclopentane	0,1022
3-methylheptane	1,7382
1c,2t,3-trimethylcyclopentane	2,1994
1t,4-dimethylcyclohexane	0,7657
1,1-dimethylcyclohexane	0,3201
2,2,5-trimethylhexane	0,0316
3c-ethylmethylcyclopentane	0,3393
3t-ethylmethylcyclopentane	0,2983
2t-ethylmethylcyclopentane	0,6804
1,1-methylethylcyclopentane	0,0755
1t,2-dimethylcyclohexane	1,0183
1t,3-dimethylcyclohexane	0,0275
n-octane	7,2563
i-propylcyclopentane	0,1561
O52	0,0105
N1	0,0605
2,3,4-trimethylhexane	0,0687
N2	0,1126
N3	0,087
2,3,5-trimethylhexane	0,2588
2,2-dimethylheptane	0,4162
N4	2,5969
2,2,3-trimethylhexane	0,0575
2,4-dimethylheptane	1,1569
ethylcyclohexane	1,1692
2,5-dimethylheptane	0,1731
3,3-dimethylheptane	0,6695
3,5-dimethylheptane	0,1703
2,6-dimethylheptane	0,1247
1,1,3-trimethylcyclohexane	0,2023
N7	0,1171
N11	0,1066
ethylbenzene	1,7138
1c,2t,4t-trimethylcyclohexane	0,8242
I4	0,1014
N12	0,0107
N13	0,0935
1,3-dimethylbenzene	3,4654
1,4-dimethylbenzene	1,2563
2,3-dimethylheptane	0,7597
N14	0,3347
I5	0,1
4-ethylheptane	0,2118
4-methyloctane	0,9701
2-methyloctane	1,3227
N15	0,1107
1c,2t,3-trimethylcyclohexane	0,3133
1c,2t,4c-trimethylcyclohexane	0,3798
1,1,2-trimethylcyclohexane	1,5462
1,2-dimethylbenzene	1,8982

I7	0,028
N18	0,0288
N19	1,3569
I8	0,2273
N20	0,4381
I9	0,0331
i-butylcyclopentane	0,0848
N21	0,1761
N22	0,1739
N23/c-nonene-2	0,1841
I10	0,1098
n-nonane	5,837
1,1-methylethylcyclohexane	0,3545
N25	0,1191
i-propylbenzene	0,0131
N26	0,2959
N27	0,5173
i-propylcyclohexane	0,3512
I12	0,2209
2,2-dimethyloctane	0,1154
2,4-dimethyloctane	0,269
N28	0,0403
N29	0,9512
2,5-dimethyloctane	0,3005
n-butylcyclopentane	0,2869
N30	0,3177
3,3-dimethyloctane	0,1209
N31	1,0316
n-propylbenzene	0,204
3,6-dimethyloctane	0,6214
3-methyl-5-ethylheptane	0,0896
N32	0,5564
1,3-methylethylbenzene	0,9653
1,4-methylethylbenzene	0,4035
N33	0,2458
2,3-dimethyloctane	0,0706
1,3,5-trimethylbenzene	0,6971
I15	0,1969
N34	0,1379
I16	0,0626
5-methylnonane	0,1973
I17	0,6342
1,2-methylethylbenzene	0,3678
2-methylnonane	0,7278
N35	0,2364
N36	0,6925
3-ethyloctane	0,0296
3-methylnonane	0,0717
I19	0,0502
t-butylbenzene	0,0442
1,2,4-trimethylbenzene	1,2322
i-butylcyclohexane	0,3852

I22	0,13
I23	0,0608
N37	0,0724
1t-methyl-2-n-propylcyclohexan	0,0824
I24	0,1272
I25	0,0855
n-decane	2,001
I26	0,0939
N38	0,085
1,2,3-trimethylbenzene	0,322
N39	0,1163
1,4-methyl-i-propylbenzene	0,0326
I27	0,1132
I28	0,06
I29	0,0716
2-3-dihydroindene	0,0804
sec-butylcyclohexane	0,1945
3-ethylnonane	0,3142
N40	0,2621
I31	0,1163
I32	0,059
1,3-diethylbenzene	0,0635
I33	0,2405
1,4-methyl-n-propylbenzene	0,0251
1,4-diethylbenzene	0,0669
1,3-methyl-n-propylbenzene	0,0564
I34	0,0847
t-decahydronaphthalene	0,0382
N41	0,0871
I35	0,0855
I36	0,0106
I37	0,0812
I38	0,0827
I39	0,0798
I40	0,075
I41	0,0817
1,3-dimethyl-2-ethylbenzene	0,0274
I42	0,0224
I43	0,0154
1,4-methyl-t-butylbenzene	0,0192
1,2-dimethyl-3-ethylbenzene	0,0599
1,2-ethyl-i-propylbenzene	0,0119
n-undecane	0,2599
1,4-ethyl-i-propylbenzene	0,0153
1,2,4,5-tetramethylbenzene	0,0234
1,2,3,5-tetramethylbenzene	0,0335
1,2-methyl-t-butylbenzene	0,0194
5-methylindan	0,0065
I43	0,0238
4-methylindan	0,0196
1,2-ethyl-n-propylbenzene	0,0312
1,3-di-i-propylbenzene	0,0163

s-pentylbenzene	0,0201
n-pentylbenzene	0,0054
1t-M-2-(4-MP)cyclopentane	0,0291
1,4-di-i-propylbenzene	0,0113
tetrahydronaphthalene	0,0155
naphthalene	0,0068
1,4-ethyl-t-butylbenzene	0,0141
I46	0,0108
A5	0,0163
n-dodecane	0,0771
1,3,5-triethylbenzene	0,0146
n-tridecane	0,0068

Total Unknowns	3,325
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 157

CAS No. 64741-63-5

Component	Concentration % (m/m)
propane	0,0021
i-butane	0,1806
butene-1	0,0041
n-butane	0,4665
i-pentane	1,5803
pentene-1	0,0041
2-methylbutene-1	0,0136
n-pentane	1,421
t-pentene-2	0,011
3,3-dimethylbutene-1	0,0069
2-methylbutene-2	0,0356
2,2-dimethylbutane	0,4924
cyclopentene	0,0033
4-methylpentene-1	0,0048
3-methylpentene-1	0,0081
cyclopentane	0,1547
2,3-dimethylbutane	0,8253
4-methyl-c-pentene-2	0,0153
2-methylpentane	4,6103
2,3-dimethylbutene-1	0,0445
3-methylpentane	4,5299
2-methylpentene-1	0,0143
hexene-1	0,0419
O11	0,0175
n-hexane	10,434
t-hexene-3	0,0445
c-hexene-3	0,02
t-hexene-2	0,0797
2-methylpentene-2	0,116
4-methylcyclopentene	0,0081
3-methyl-c-pentene-2	0,0825
3-methylcyclopentene	0,0073
c-hexene-2	0,0495
3,3-dimethylpentene-1	0,162
2,2-dimethylpentane	1,5254
methylcyclopentane	2,3587
2,4-dimethylpentane	2,1682
2,3,3-trimethylbutene-1	0,0582
cyclic diolefin or triolefin	0,0065
2,2,3-trimethylbutane	0,1914
cyclic diolefin or triolefin	0,0072
4,4-dimethyl-c-pentene-2	0,0335
2,4-dimethylpentene-1	0,0828
benzene	40,6263

3,3-dimethylpentane	1,3237
5-methylhexene-1	0,0773
cyclohexane	0,6532
2-methyl-t-hexene-3	0,0616
diolefin (hexadiene)	0,0052
2-ethyl-3-methylbutene-1	0,0253
2-methylhexane	9,5901
2,3-dimethylpentane	3,2471
5-methyl-t-hexene-2	0,1575
cyclohexene	0,0144
3-methylhexane	8,8919
3,4-dimethyl-c-pentene-2	0,0469
1c,3-dimethylcyclopentane	0,2033
1t,3-dimethylcyclopentane	0,1722
3-ethylpentane	0,6285
1t,2-dimethylcyclopentane	0,2078
2,2,4-trimethylpentane	0,0258
heptene-1	0,0075
2-ethylpentene-1	0,0254
3-methyl-c-hexene-3	0,021
t-heptene-3	0,0268
n-heptane	1,4181
3-methyl-c-hexene-2	0,0661
3-methyl-t-hexene-3	0,0282
t-heptene-2	0,01
3-ethylpentene-2	0,0103
c-heptene-2	0,0196
2,3-dimethylpentene-2	0,0122
1c,2-dimethylcyclopentane	0,0096
methylcyclohexane	0,0099
toluene	0,454

Total Unknowns	0,000
TOTAL	100,000

DHA-GC Quantitative Results (Individual Hydrocarbons)

Sample No. 165

CAS No. 64741-70-4

Component	Concentration % (m/m)
i-butane	0,873
n-butane	4,7749
2,2-dimethylpropane	0,3424
i-pentane	43,6574
n-pentane	7,2337
2,2-dimethylbutane	7,3761
O5	0,0086
cyclopentane	3,4141
2,3-dimethylbutane	3,6544
2-methylpentane	12,9182
2,3-dimethylbutene-1	0,0467
3-methylpentane	8,4265
2-methylpentene-1	0,019
n-hexane	0,7289
2,2-dimethylpentane	0,0359
methylcyclopentane	3,9754
2,4-dimethylpentane	0,0285
2,2,3-trimethylbutane	0,0077
3,3-dimethylpentane	0,0182
cyclohexane	1,2094
2-methylhexane	0,0779
1,1-dimethylcyclopentane	0,0322
2,3-dimethylpentane	0,0486
3-methylhexane	0,0837
1c,3-dimethylcyclopentane	0,0696
1t,3-dimethylcyclopentane	0,0683
3-ethylpentane	0,0066
1t,2-dimethylcyclopentane	0,0915
methylcyclohexane	0,3066
2,2-dimethylhexane	0,033
2,5-dimethylhexane	0,0363
2,2,3-trimethylpentane	0,0037
1c,2t,4-trimethylcyclopentane	0,0324
1t,2c,3-trimethylcyclopentane	0,0215
1,1,2-trimethylcyclopentane	0,0124
3-methylheptane	0,0054
1c,2t,3-trimethylcyclopentane	0,0933
1t,4-dimethylcyclohexane	0,0456
1,1-dimethylcyclohexane	0,0204
3c-ethylmethylcyclopentane	0,014
3t-ethylmethylcyclopentane	0,013
2t-ethylmethylcyclopentane	0,0136
1t,2-dimethylcyclohexane	0,0353

1c,4-dimethylcyclohexane	0,0427
2,2,3-trimethylhexane	0,0296
I3	0,0135

Total Unknowns	0,000
TOTAL	100,000