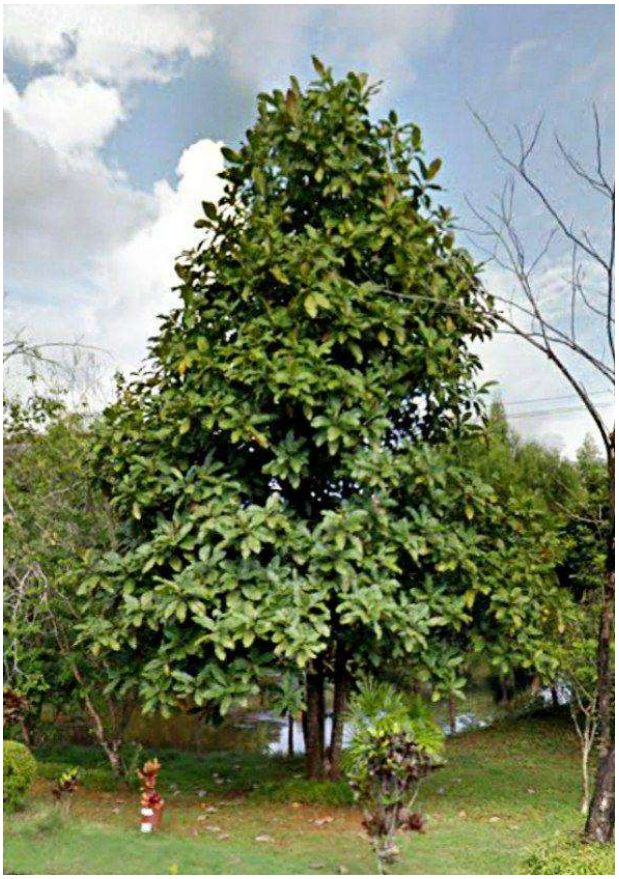
LAMPIRAN

Lampiran 1. Foto Sampel



(a) Pohon buah dengen (*Dillenia serrata* Thumb.)

(a) Buah dengen (*Dillenia serrata* Thumb.)

Gambar 7. Foto tumbuhan dengen (*Dillenia serrata* Thumb.)

(Sumber: Dokumentasi pribadi)

Lampiran 2. Gambar alat penelitian

Gambar 8. Rotary vacuum evaporator (Buchi ® Rotavapor R-220)

(Sumber: Dokumentasi pribadi)

Gambar 9. Timbangan analitik *(KERN ABJ-NM/ABS-N)*

(Sumber: Dokumentasi pribadi)

Gambar 10. Oven pengering

(Sumber: Dokumentasi pribadi)

Gambar 11. Spektrofotometer serapan atom

(Sumber: Dokumentasi pribadi)

Gambar 12. Spektrofotometer GC-MS

(Sumber: Dokumentasi pribadi)

Gambar 13. Ultrasonik

(Sumber: Dokumentasi pribadi)

Gambar 14. Eksikator

(Sumber: Dokumentasi pribadi)

Gambar 15. Tanur

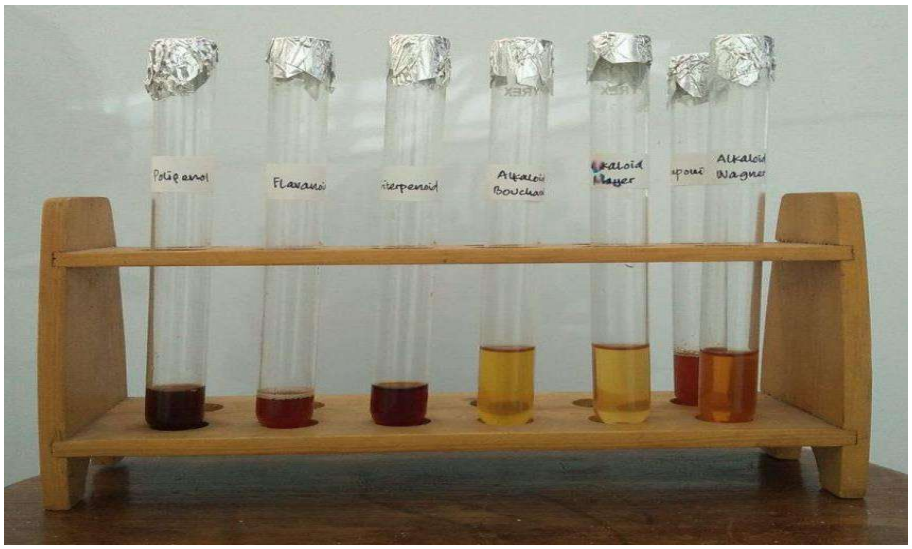
(Sumber: Dokumentasi pribadi)

Lampiran 3. Gambar parameter senyawa terlarut dalam pelarut tertentu

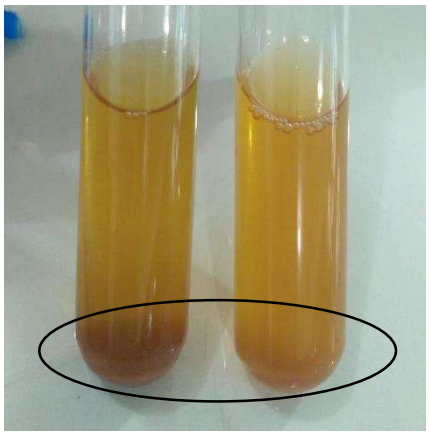
Gambar 16. Hasil senyawa terlarut dalam pelarut air

Gambar 17. Hasil senyawa terlarut dalam pelarut etanol

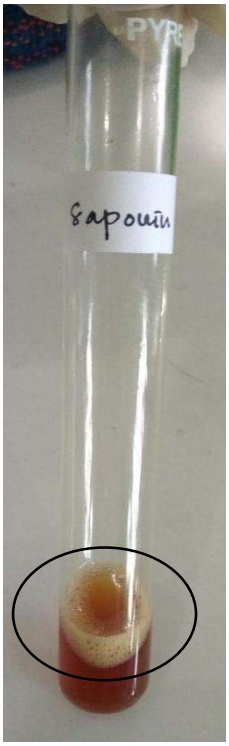
Lampiran 4. Gambar hasil uji kandungan kimia ekstrak buah dengen



(a)



(b)



(c)

Gambar 18. (a): hasil uji kandungan kimia ekstrak buah dengen (polifenol, flavanoid, terpenoid, alkaloid dan saponin); (b): endapan coklat pada uji alkaloid wagner dan endapan putih krem pada uji alkaloid mayer; (c): buih pada uji saponin

Lampiran 5. Gambar pengujian parameter susut pengeringan ekstrak buah dengen (*Dillenia serrata* Thumb.)

Gambar 19. Hasil parameter susut pengeringan

Lampiran 6. Gambar parameter bobot jenis ekstrak buah dengen (*Dillenia serrata* Thumb.)

Gambar 20. Bobot jenis menggunakan piknometer

Lampiran 7. Gambar parameter kadar air ekstrak buah dengen (*Dillenia serrata* Thumb.)

Gambar 21. Hasil parameter kadar air

Lampiran 8. Gambar parameter kadar abu total dan kadar abu tidak larut asam ekstrak buah dengen (*Dillenia serrata* Thumb.)

Gambar 22. Hasil parameter kadar abu total

Gambar 23. Hasil parameter kadar abu tidak larut asam

Lampiran 9. Perhitungan rendemen ekstrak

Bobot ekstrak = 125,7589 gram

Bobot sampel = 600 gram

Presentase rendemen $= \frac{\text{bobot ekstrak}}{\text{bobot sampel}} \times 100\ \%$

$= \frac{125{,}7589\ \text{g}}{600\ \text{g}} \times 100\ \%$

$= 20{,}9598\ \%$

Lampiran 10. Perhitungan parameter senyawa yang larut dalam pelarut tertentu ekstrak buah dengen (*Dillenia serrata* Thumb.)

a. Kadar senyawa yang larut dalam air

Penimbangan bobot konstan (cawan porselen)

1. 43,1019 g
2. 43,1023 g
3. 43,1012 g

$$\frac{43{,}1019\ g + 43{,}1023\ g + 43{,}1012\ g}{3} = 43{,}1018\ g$$

Jadi, bobot konstan yang digunakan = 43,1018 g

Bobot ekstrak yang ditimbang = 5,0329 g

Bobot cawan + residu setelah pemanasan

1. 43,9116 g
2. 43,9086 g
3. 43,9068 g

$$\frac{43{,}9116\ g + 43{,}9086\ g + 43{,}9068\ g}{3} = 43{,}909\ g$$

Jadi bobot konstan yang digunakan = 43,909 g

Rumus kadar senyawa larut air = $\frac{W_2\text{-}W_0}{W_1}$ x 100%

Keterangan

W_0 = bobot cawan kosong (konstan)

W_1 = bobot ekstral yang ditimbang

W_2 = bobot cawan + residu setelah pemanasan (konstan)

Kadar senyawa larut air = $\frac{W_2\text{-}W_0}{W_1}$ x 100%

$$= \frac{43,909\ g - 43,1018\ g}{5,0329\ g} \times 100\%$$

$$= \frac{0,8072\ g}{5,0329\ g} \times 100\ \%$$

$$= 16,0384\ \%$$

Jadi, kadar senyawa yang larut dalam air adalah 16,0384 %

b. Kadar senyawa larut dalam etanol

Penimbangan bobot konstan (cawan porselen)

1. 42,5720 g
2. 42,5736 g
3. 42,5651 g

$$\frac{42,5720\ g + 42,5736\ g + 42,5651\ g}{3} = 42,5702\ g$$

Jadi, bobot konstan yang digunakan = 42,5702 g

Bobot ekstrak yang ditimbang = 5,1510 g

Bobot cawan + residu setelah pemanasan

1. 43,4410 g
2. 43,4452 g
3. 43,4486 g

$$\frac{43,4410\ g + 43,4452\ g + 43,4486\ g}{3} = 43,4449\ g$$

Jadi bobot konstan yang digunakan = 43,4449 g

Rumus kadar senyawa larut etanol = $\frac{W_2 - W_0}{W_1} \times 100\%$

Keterangan

W_0 = bobot cawan kosong (konstan)

W_1 = bobot ekstral yang ditimbang

W_2 = bobot cawan + residu setelah pemanasan (konstan)

Kadar senyawa larut etanol $= \frac{W_2 - W_0}{W_1} \times 100\%$

$= \frac{43{,}4449\ g - 42{,}5702\ g}{5{,}1510\ g} \times 100\%$

$= \frac{0{,}8747\ g}{5{,}1510\ g} \times 100\ \%$

$= 16{,}9811\ \%$

Jadi, kadar senyawa yang larut dalam air adalah 16,9811 %

Lampiran 11. Perhitungan parameter susut pengeringan pada ekstrak buah dengen (*Dillenia serrata* Thumb.)

Penimbangan bobot konstan (cawan porselen)

1. 39,3481 g
2. 39,3502 g
3. 39,3521 g

$\frac{39{,}3481\ \text{g} + 39{,}3502\ \text{g} + 39{,}3521\ \text{g}}{3}$ = 39,3501 g

Jadi, bobot konstan yang digunakan = 39,3501 g

Bobot ekstrak yang ditimbang = 1,1398 g

Bobot cawan + ekstrak setelah pemanasan (konstan)

1. 40,4639 g
2. 40,4661 g
3. 40,4651 g

$\frac{40{,}4639\ \text{g} + 40{,}4661\ \text{g} + 40{,}4651\ \text{g}}{3}$ = 40,4650 g

Jadi, bobot konstan yang digunakan = 40,4650 g

Rumus susut pengeringan = $\frac{W_1 - W_2}{W_1}$ x 100%

Keterangan

W_1 = bobot ekstrak + bobot cawan konstan

W_1 = 1,1398 g + 39,3501 g = 40,4899 g

W_2 = bobot cawan + ekstrak setelah pemanasan (konstan)

W_2 = 40,4650 g

Susut pengeringan = $\frac{W_1 - W_2}{W_1}$ x 100%

$$= \frac{40{,}4899\ g - 40{,}4650\ g}{40{,}4899\ g} \times 100\%$$

$$= \frac{0{,}0249\ g}{40{,}4899\ g} \times 100\ \%$$

$$= 0{,}0615\ \%$$

Jadi, susut pengeringan yang diperoleh adalah 0,0615 %

Lampiran 12. Perhitungan penetapan bobot jenis pada ekstrak buah dengen (*Dillenia serrata* Thumb.)

W_1 = berat bobot piknometer kosong

W_1 = 26,8404 g

W_2 = berat bobot piknometer + air

W_2 = 76,7787 g

W_3 = berat bobot piknometer + ekstrak

W_3 = 69,3051 g

$$\text{Bobot jenis} = \frac{W_3 - W_1}{W_2 - W_1}$$

$$= \frac{69{,}3051\ \text{g} - 26{,}8404\ \text{g}}{76{,}7787\ \text{g} - 26{,}8404\ \text{g}}$$

$$= \frac{42{,}4647\ \text{g}}{49{,}9383\ \text{g}}$$

$$= 0{,}8503\ \text{g}$$

Lampiran 13. Perhitungan parameter kadar air ekstrak buah dengen (*Dillenia serrata* Thumb.)

Penimbangan bobot konstan (cawan porselen)

1. 32,3216 g
2. 32,3226 g
3. 32,3296 g

$$\frac{32,3216\ g + 32,3226\ g + 32,3296\ g}{3} = 32,3246\ g$$

Jadi, bobot konstan yang digunakan = 32,3246 g

Bobot ekstrak yang ditimbang = 10,0121 g

Bobot cawan + ekstrak setelah pemanasan = 40,7257 g

$$\text{kadar air} = \frac{W_1 - W_2}{W_1} \times 100\%$$

Keterangan

W_1 = bobot ekstrak + bobot cawan konstan

W_1 = 10,0121 g + 32,3246 g = 42,3367 g

W_2 = bobot cawan + ekstrak setelah pemanasan

W_2 = 40,7257 g

$$\text{Kadar air} = \frac{W_1 - W_2}{W_1} \times 100\%$$

$$= \frac{42,3367\ g - 40,7257\ g}{42,3367\ g} \times 100\%$$

$$= \frac{1,611\ g}{42,3367\ g} \times 100\ \%$$

$$= 3,8052\ \%$$

Jadi, kadar air yang diperoleh adalah 3,8052 %

Lampiran 14. Perhitungan parameter kadar abu total pada ekstrak buah dengen (*Dillenia serrata* Thumb.)

Penimbangan bobot konstan (cawan porselen)

1. 51,2949 g
2. 51,2953 g
3. 51,2960 g

$$\frac{51,2949\ g + 51,2953\ g + 51,2960\ g}{3} = 51,2954\ g$$

Jadi, bobot konstan yang digunakan = 51,2954 g

Bobot ekstrak yang ditimbang = 2,0178 g

Bobot cawan + ekstrak setelah pengabuan (konstan)

1. 51,3976 g
2. 51,3973 g
3. 51,3976 g

$$\frac{51,3976\ g + 51,3973\ g + 51,3976\ g}{3} = 51,3975\ g$$

Jadi, bobot konstan yang digunakan = 51,3975 g

Rumus kadar abu total = $\frac{W_2-W_0}{W_1}$ x 100%

Keterangan

W_0 = bobot cawan kosong (konstan)

W_1 = bobot ekstrak yang ditimbang

W_2 = bobot cawan + ekstrak setelah pengabuan

kadar abu total = $\frac{W_2-W_0}{W_1}$ x 100%

$$= \frac{51,3975\ g - 51,2954\ g}{2,0178\ g} \times 100\%$$

$$= \frac{0{,}1021\ g}{2{,}0178\ g} \times 100\ \%$$

$$= 5{,}0599\ \%$$

Jadi, kadar abu total yang diperoleh adalah 5,0599 %

Lampiran 15. Perhitungan parameter kadar abu tidak larut asam ekstrak buah dengen (*Dillenia serrata* Thumb.)

Penimbangan bobot konstan kertas saring bebas abu

1. 0,9713 g
2. 1,0008 g
3. 1,0192 g

$$\frac{0{,}9713\text{ g} + 1{,}0008\text{ g} + 1{,}0192\text{ g}}{3} = 0{,}9971\text{ g}$$

Jadi, bobot konstan yang digunakan = 0,9971 g

Bobot ekstrak yang ditimbang = 2,0178 g

Bobot kertas saring + abu setelah pemanasan

1. 1,0081 g
2. 1,0052 g
3. 1,0071 g

$$\frac{1{,}0081\text{ g} + 1{,}0052\text{ g} + 1{,}0071\text{ g}}{3} = 1{,}0068\text{ g}$$

Jadi, bobot konstan yang digunakan = 1,0068 g

Rumus kadar abu tidak larut asam = $\frac{W_2\text{-}W_0}{W_1}$ x 100%

Keterangan

W_0 = bobot kertas saring kosong

W_1 = bobot ekstrak yang ditimbang

W_2 = bobot kertas saring sampel

kadar abu tidak larut asam = $\frac{W_2\text{-}W_0}{W_1}$ x 100%

$$= \frac{1{,}0068\text{ g} - 0{,}9971\text{ g}}{2{,}0178\text{ g}} \times 100\%$$

$$= \frac{0{,}0097\ g}{2{,}0178\ g} \times 100\ \%$$

$$= 0{,}4807\ \%$$

Jadi, kadar abu tidak larut asam yang diperoleh adalah 0,4807 %

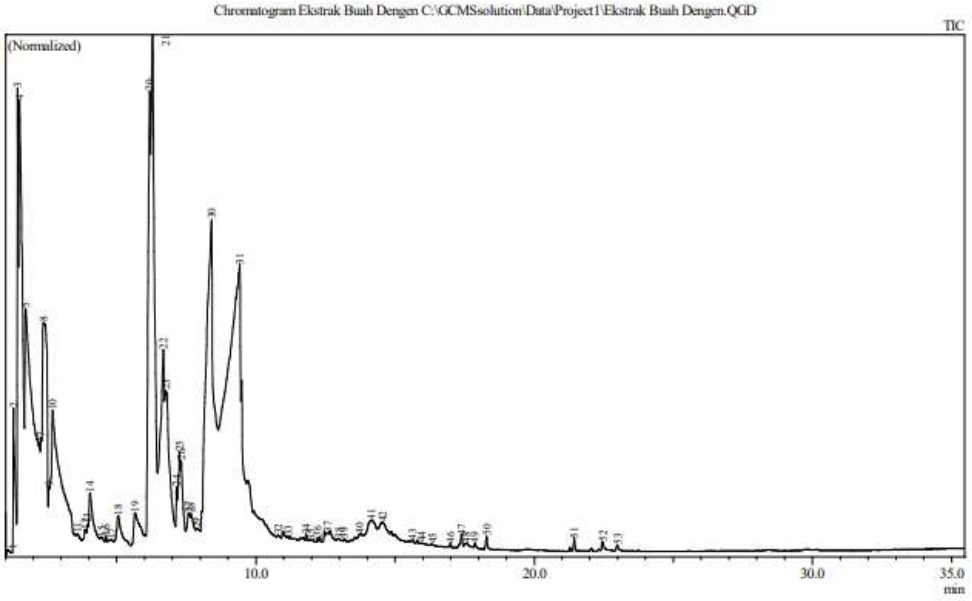
Lampiran 16. Hasil pengukuran sisa pelarut ekstrak etanol buah dengen (*Dillenia serrata* Thumb.) di Fakultas Teknik Kimia PNUP dengan menggunakan spektrofotometer GC-MS

DATA REPORT GCMS-QP2010 ULTRA SHIMADZU

Sample Information

Analyzed by	: Admin
Analyzed	: 28/02/2023 12:37:19 PM
Sample Type	: Unknown
Level #	: 1
Sample Name	: Ekstrak Buah Dengen
Sample ID	: Ekstrak Buah Dengen
IS Amount	: [1]=1
Sample Amount	: 1

Chromatogram Ekstrak Buah Dengen C:\GCMSsolution\Data\Project1\Ekstrak Buah Dengen.QGD



Peak Report TIC

Peak#	R.Time	Area	Area%	A/H	Name
1	1.075	2343662	0.09	8.85	TRIMER FROM ISOBUTYROYL PYRAZINE
2	1.285	31570149	1.18	4.87	1,1-DIFLUOROETHYLENE-2-D
3	1.435	54442037	2.03	2.65	Chloroform
4	1.503	172690556	6.43	8.63	Chloroform
5	1.726	221917451	8.27	20.46	METHANE, TRICHLORO-
6	2.208	19115907	0.71	3.86	Propanoic acid, hexyl ester
7	2.275	17611469	0.66	3.40	Trichloromethane
8	2.365	114048733	4.25	11.14	Chloroform
9	2.567	11262230	0.42	3.75	3-Furaldehyde
10	2.694	171851768	6.40	26.97	Maleic anhydride
11	3.590	10282824	0.38	10.98	BUTANOIC ACID, 2-CYANO-, METHYL ESTER
12	3.859	8910462	0.33	7.91	2-Furancarboxaldehyde, 5-methyl-
13	3.950	4920117	0.18	3.69	2,4-Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one
14	4.038	34311906	1.28	12.60	2,4-Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one
15	4.464	7424499	0.28	9.52	ETHYL 2-HYDROXYCYCLOPENTANECARBOXYLATE
16	4.611	4010625	0.15	4.80	Butanedioic acid, dimethyl ester
17	4.803	8581826	0.32	13.22	Succinimide, thio-
18	5.047	30868228	1.15	17.90	Propanoic acid, 3-chloro-2,2-dimethyl-
19	5.650	35084216	1.31	19.30	1-(2-Furyl)-2-hydroxyethanone
20	6.186	116221486	4.33	5.71	Dimethyl dl-malate
21	6.288	208599309	7.77	9.14	Dimethyl dl-malate
22	6.677	92204415	3.44	10.26	2-Butenedioic acid (E)-, monomethyl ester
23	6.759	91986756	3.43	12.79	4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl- (CAS)
24	7.150	9063419	0.34	3.08	2-Propoxy-succinic acid, dimethyl ester
25	7.252	23186002	0.86	5.19	2-Propoxy-succinic acid, dimethyl ester
26	7.312	27253270	1.02	6.65	Butanedioic acid, hydroxy-, diethyl ester, (.+/-.)-

Peak#	R.Time	Area	Area%	A/H	Name
27	7.584	14077635	0.52	7.88	2-METHYL-2H-PYRAN-3,4,5(6H)-TRIONE
28	7.664	15987398	0.60	9.13	6-OCTEN-1-OL, 3,7-DIMETHYL-
29	7.873	11009708	0.41	10.10	Sandoptal
30	8.407	294309056	10.97	20.07	5-Hydroxymethylfurfural
31	9.415	673137970	25.08	53.39	BUTANOIC ACID, PROPYL ESTER
32	10.800	1480871	0.06	19.43	3-OXO-4,4-DIMETHYLPENTANSAEUREMETHYLESTER, ENOL
33	11.150	406226	0.02	5.66	1-CYCLOPENTYL-2-BUTENE
34	11.813	2151535	0.08	8.80	Undecanoic acid, 10-methyl-, methyl ester
35	11.975	514549	0.02	10.63	2-Azaspiro[4.5]decan-3-one, 8-methyl-
36	12.225	847220	0.03	5.06	Butanoic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)-
37	12.572	7936880	0.30	19.87	D-Allose
38	12.975	1082103	0.04	9.18	Hexanoic acid, 4-hexadecyl ester
39	13.175	565669	0.02	5.20	4,6-Dimethyl-5-nitromethylheptan-3-one
40	13.725	1086595	0.04	8.30	Cholest-22-ene-21-ol, 3,5-dehydro-6-methoxy-, pivalate
41	14.152	32099863	1.20	23.67	Ethyl .alpha.-d-glucopyranoside
42	14.550	48246957	1.80	38.55	Hydrazinecarboxamide, 2-(2-methylcyclohexylidene)-
43	15.625	11679151	0.44	24.66	Methyl 3-hydroxytetradecanoate
44	15.950	6030209	0.22	17.64	2-Pentadecanone, 6,10,14-trimethyl-
45	16.350	5340709	0.20	19.92	.beta.-d-Lyxofuranosid, thio-decyl-
46	17.000	4425565	0.16	14.60	9-HEXADECENOIC ACID, METHYL ESTER, (Z)-
47	17.396	5081068	0.19	7.54	HEXADECANOIC ACID, METHYL ESTER
48	17.563	4043052	0.15	13.87	3-Methyl-2-furoic acid
49	17.875	2326462	0.09	8.43	Palmitoleic acid
50	18.295	2826658	0.11	4.95	n-Hexadecanoic acid
51	21.447	2035664	0.08	3.63	(9E,12E)-9,12-OCTADECADIENOYL CHLORIDE #
52	22.469	3674175	0.14	9.17	cis-9-Hexadecenal
53	22.994	1632992	0.06	6.26	Octadecanoic acid
		2683799262	100.00		

Library

<< Target >>
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RawMode:Averaged 1.067-1.083(9-11) BasePeak:57.10(18357)
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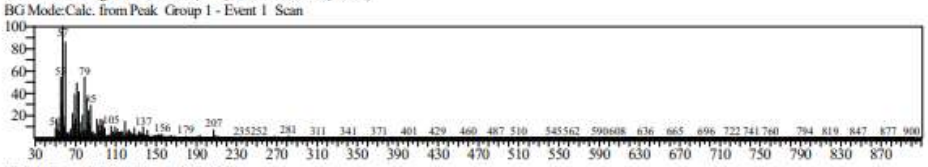

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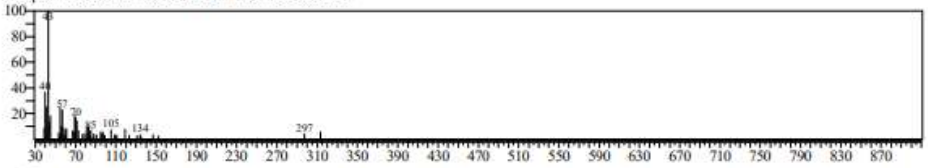
CompName:TRIMER FROM ISOBUTYROYL PYRAZINE



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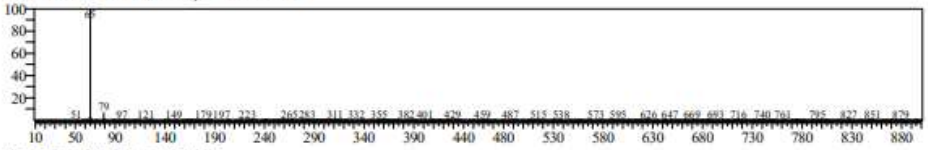
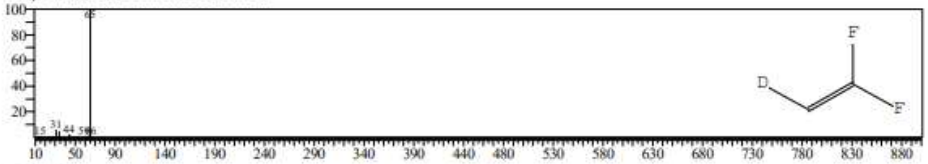


Hit#:1 Entry:919 Library:Wiley9.lib
SI:94 Formula:C2HDF2 CAS:563-60-0 MolWeight:64 RetIndex:0
CompName:1,1-DIFLUOROETHYLENE-2-D



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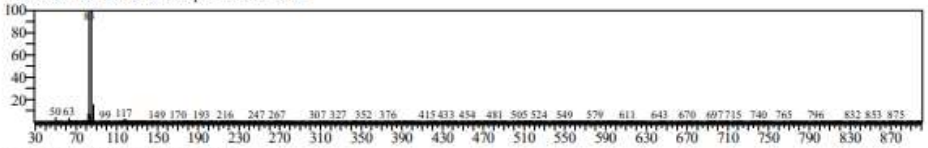
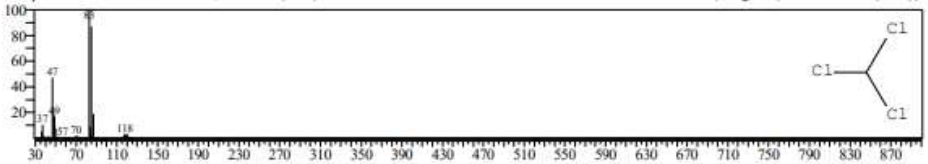
RawMode:Averaged 1.425-1.442(52-54) BasePeak:84.90(4704584)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



Hit#:1 Entry:17639 Library:Wiley9.lib
SI:94 Formula:CHCl3 CAS:67-66-3 MolWeight:118 RetIndex:0
CompName:Chloroform $$ Methane, trichloro- (CAS) $$ R 20 $$ Freon 20 $$ Trichloroform $$ Trichloromethane $$ R 20 (refrigerant) $$ Chloroform (ACN)(I



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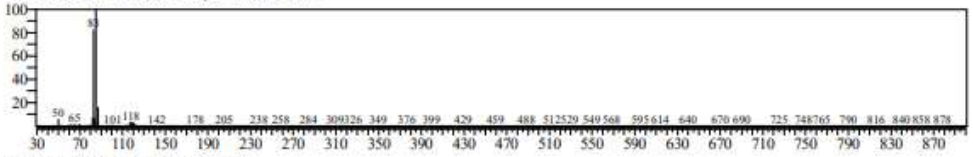
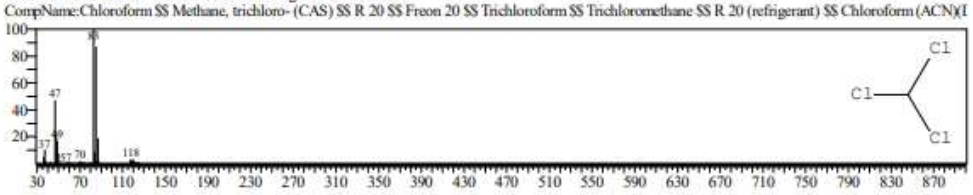
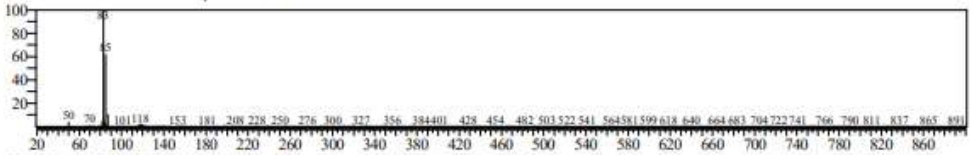
RawMode:Averaged 1.492-1.508(60-62) BasePeak:84.90(3457189)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



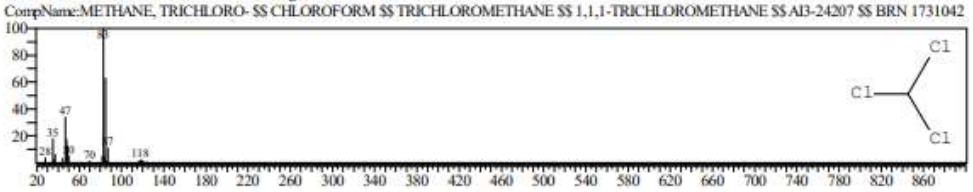
Hit#:1 Entry:17639 Library:Wiley9.lib
SI:93 Formula:CHCl3 CAS:67-66-3 MolWeight:118 RetIndex:0
CompName:Chloroform $$ Methane, trichloro- (CAS) $$ R 20 $$ Freon 20 $$ Trichloroform $$ Trichloromethane $$ R 20 (refrigerant) $$ Chloroform (ACN)(I



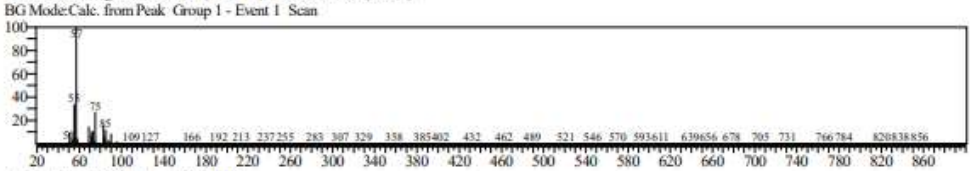
<< Target >>
Line#:5 R.Time:1.725(Scan#:88) MassPeaks:389
RawMode:Averaged 1.717-1.733(87-89) BasePeak:82.95(2781706)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



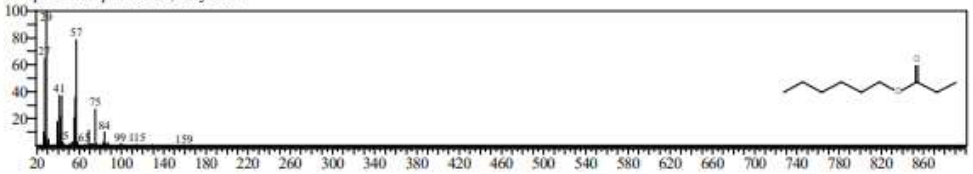
Hit#:1 Entry:15347 Library:WILEY8.LIB
SI:99 Formula:CHCl3 CAS:67-66-3 MolWeight:118 RetIndex:0
CompName:METHANE, TRICHLORO- $$ CHLOROFORM $$ TRICHLOROMETHANE $$ 1,1,1-TRICHLOROMETHANE $$ AI3-24207 $$ BRN 1731042



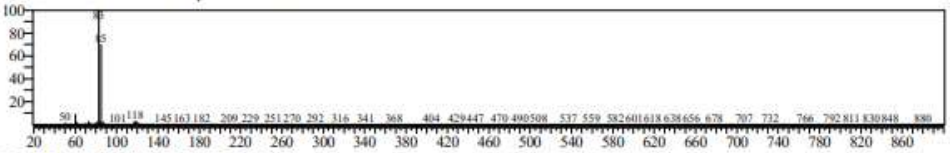
<< Target >>
Line#:6 R.Time:2.208(Scan#:146) MassPeaks:382
RawMode:Averaged 2.200-2.217(145-147) BasePeak:56.95(72263)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



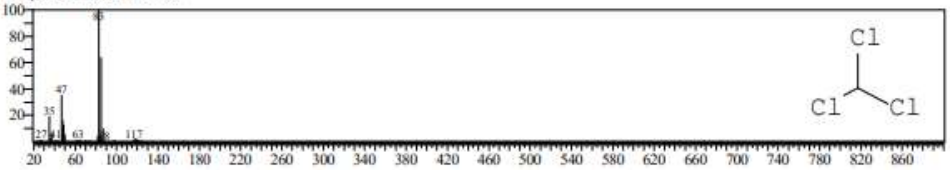
Hit#:1 Entry:33733 Library:NIST17.lib
SI:85 Formula:C9H18O2 CAS:2445-76-3 MolWeight:158 RetIndex:1083
CompName:Propanoic acid, hexyl ester



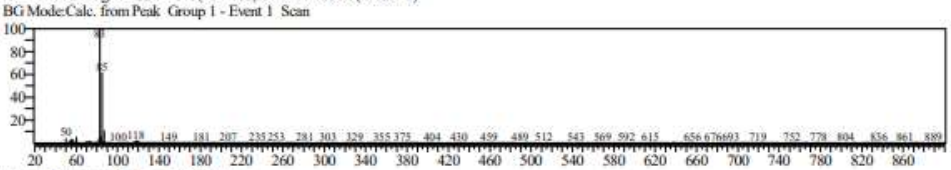
<< Target >>
Line#:7 R.Time:2.275(Scan#:154) MassPeaks:398
RawMode:Averaged 2.267-2.283(153-155) BasePeak:82.90(163919)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



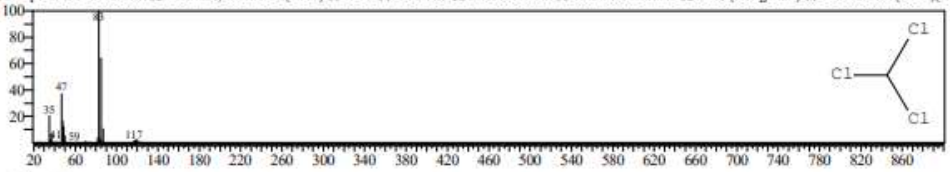
Hit#:1 Entry:3639 Library:NIST27.LIB
SI:93 Formula:CHCl3 CAS:67-66-3 MolWeight:118 RetIndex:0
CompName:Trichloromethane



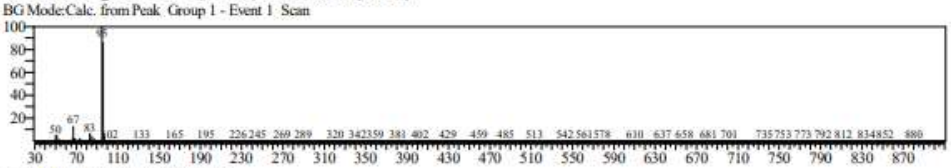
<< Target >>
Line#:8 R.Time:2.367(Scan#:165) MassPeaks:468
RawMode:Averaged 2.358-2.375(164-166) BasePeak:83.00(2783940)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



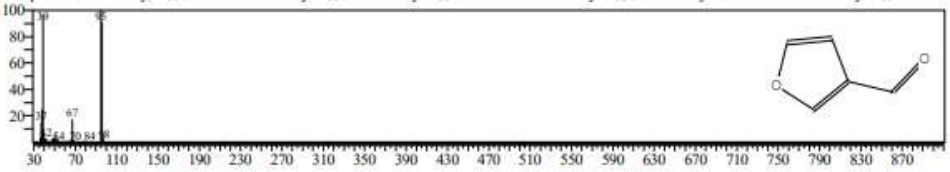
Hit#:1 Entry:17638 Library:Wiley9.lib
SI:95 Formula:CHCl3 CAS:67-66-3 MolWeight:118 RetIndex:0
CompName:Chloroform $$ Methane, trichloro- (CAS) $$ R 20 $$ Freon 20 $$ Trichloroform $$ Trichloromethane $$ R 20 (refrigerant) $$ Chloroform (ACN)(I



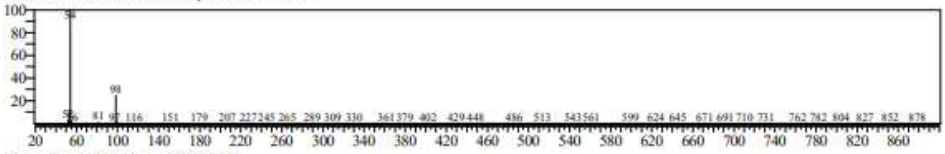
<< Target >>
Line#:9 R.Time:2.567(Scan#:189) MassPeaks:418
RawMode:Averaged 2.558-2.575(188-190) BasePeak:95.05(152746)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



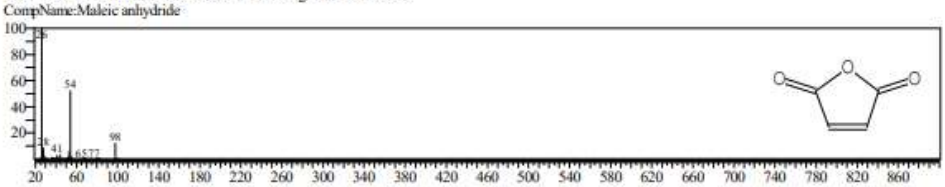
Hit#:1 Entry:6097 Library:Wiley9.lib
SI:94 Formula:C5H4O2 CAS:498-60-2 MolWeight:96 RetIndex:0
CompName:3-Furaldehyde $$ 3-Furancarboxaldehyde $$ 3 - furaldehyde $$ 3 - furan - carboxaldehyde $$ 3 - furaldehyde3 - furan - carboxaldehyde $$ FURAN



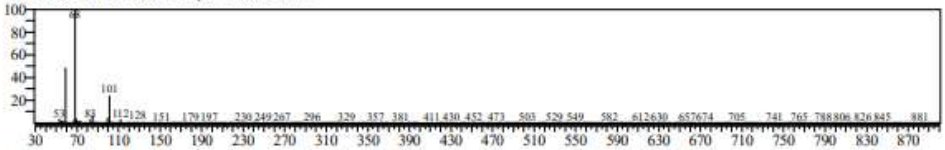
<< Target >>
Line#:10 R.Time:2.692(Scan#:204) MassPeaks:446
RawMode:Averaged 2.683-2.700(203-205) BasePeak:54.05(2949341)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



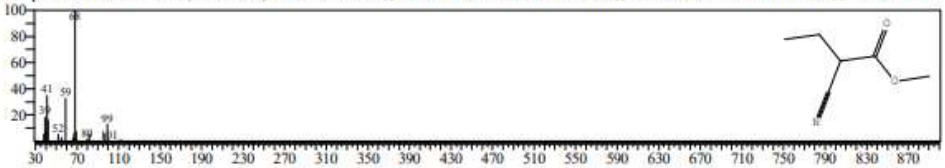
Hit#:1 Entry:1466 Library:NIST27.LIB
SI:97 Formula:C4H2O3 CAS:108-31-6 MolWeight:98 RetIndex:0
CompName:Maleic anhydride



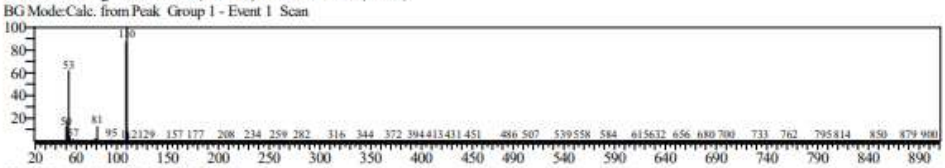
<< Target >>
Line#:11 R.Time:3.592(Scan#:312) MassPeaks:477
RawMode:Averaged 3.583-3.600(311-313) BasePeak:68.05(78523)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



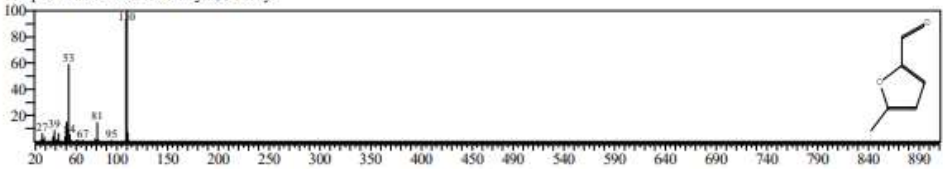
Hit#:1 Entry:20790 Library:WILEY8.LIB
SI:83 Formula:C6H9NO2 CAS:53692-87-8 MolWeight:127 RetIndex:0
CompName:BUTANOIC ACID, 2-CYANO-, METHYL ESTER $$ METHYL 2-CYANOBUTANOATE $$ 2-CYANOMETHYLBUTYRATE $$ METHYL 2-CY



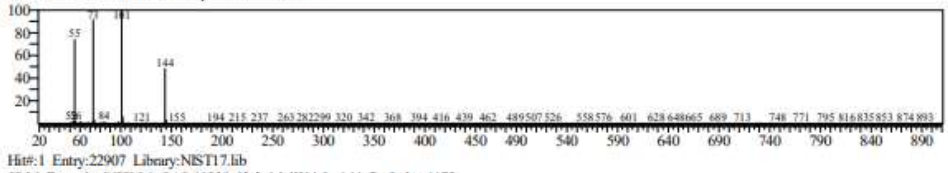
<< Target >>
Line#:12 R.Time:3.858(Scan#:344) MassPeaks:419
RawMode:Averaged 3.850-3.867(343-345) BasePeak:110.10(86066)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



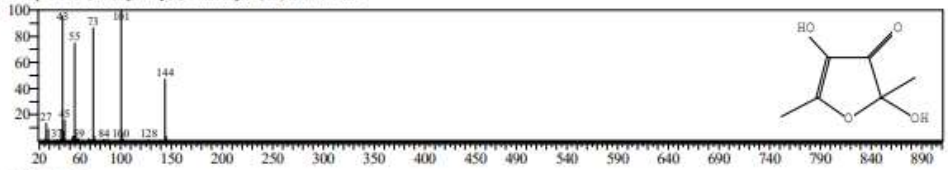
Hit#:1 Entry:6382 Library:NIST17.lib
SI:98 Formula:C6H6O2 CAS:620-02-0 MolWeight:110 RetIndex:920
CompName:2-Furancarboxaldehyde, 5-methyl-



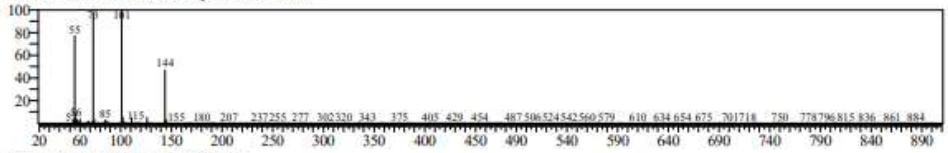
<< Target >>
Line#:13 R.Time:3.950(Scan#:355) MassPeaks:402
RawMode:Averaged 3.942-3.958(354-356) BasePeak:101.10(62997)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



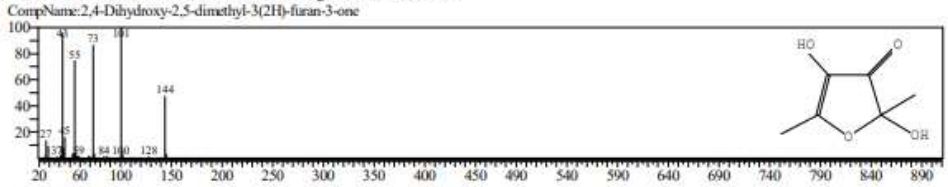
Hit#:1 Entry:22907 Library:NIST17.lib
SI:96 Formula:C6H8O4 CAS:10230-62-3 MolWeight:144 RetIndex:1173
CompName:2,4-Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one



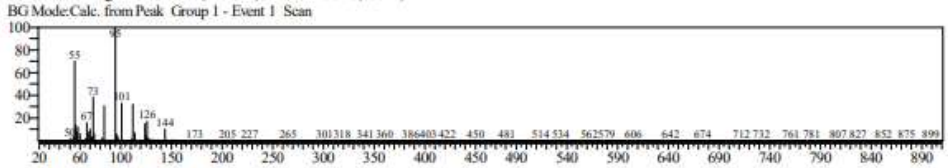
<< Target >>
Line#:14 R.Time:4.042(Scan#:366) MassPeaks:381
RawMode:Averaged 4.033-4.050(365-367) BasePeak:101.10(412018)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



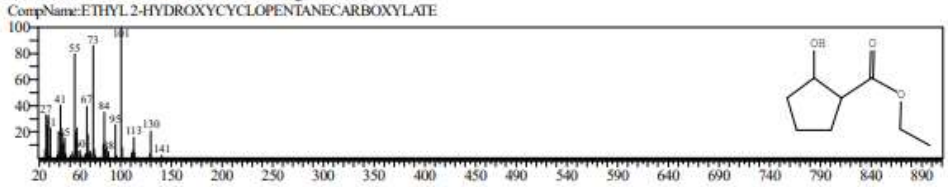
Hit#:1 Entry:22907 Library:NIST17.lib
SI:95 Formula:C6H8O4 CAS:10230-62-3 MolWeight:144 RetIndex:1173
CompName:2,4-Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one



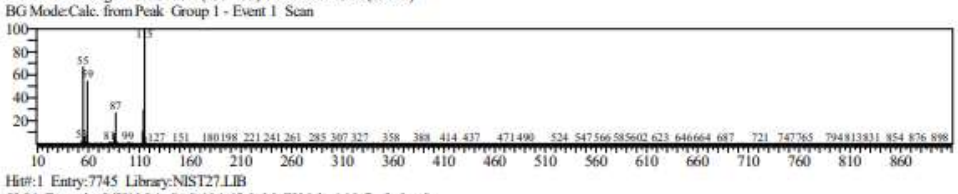
<< Target >>
Line#:15 R.Time:4.467(Scan#:417) MassPeaks:402
RawMode:Averaged 4.458-4.475(416-418) BasePeak:95.10(33814)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



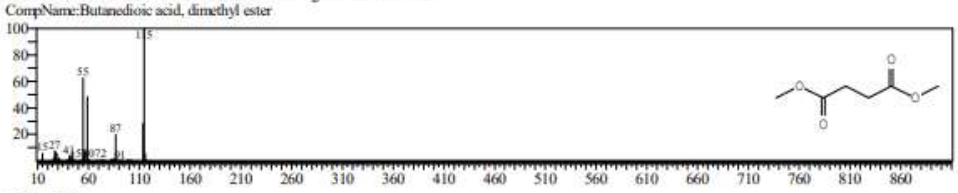
Hit#:1 Entry:50980 Library:WILEY8.LIB
SI:72 Formula:C8H14O3 CAS:0-00-0 MolWeight:158 RetIndex:0
CompName:ETHYL 2-HYDROXYCYCLOPENTANECARBOXYLATE



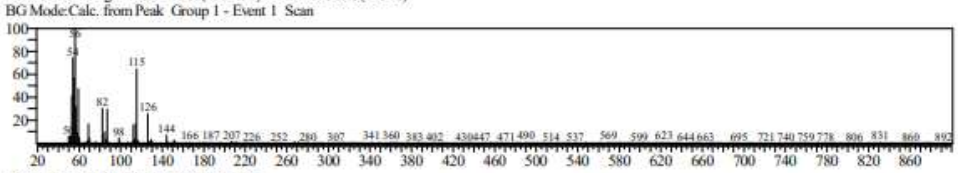
<< Target >>
Line#:16 R.Time:4.608(Scan#:434) MassPeaks:444
RawMode:Averaged 4.600-4.617(433-435) BasePeak:115.15(69712)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



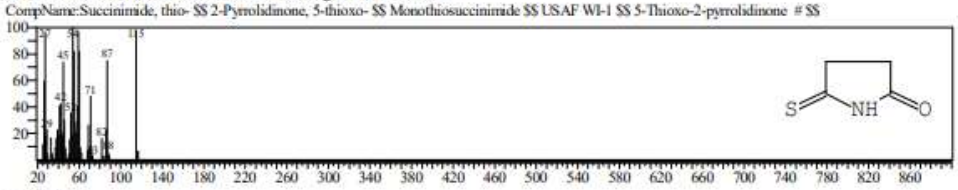
Hit#:1 Entry:7745 Library:NIST27.LIB
SI:94 Formula:C6H10O4 CAS:106-65-0 MolWeight:146 RetIndex:0
CompName:Butanedioic acid, dimethyl ester



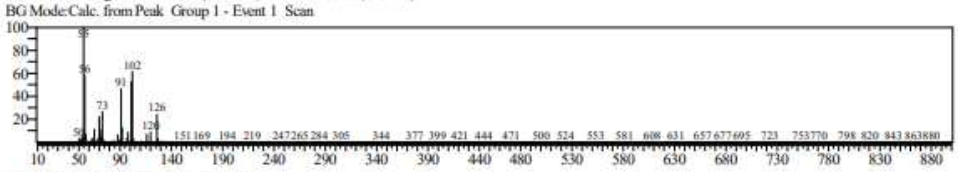
<< Target >>
Line#:17 R.Time:4.800(Scan#:457) MassPeaks:437
RawMode:Averaged 4.792-4.808(456-458) BasePeak:56.05(14516)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



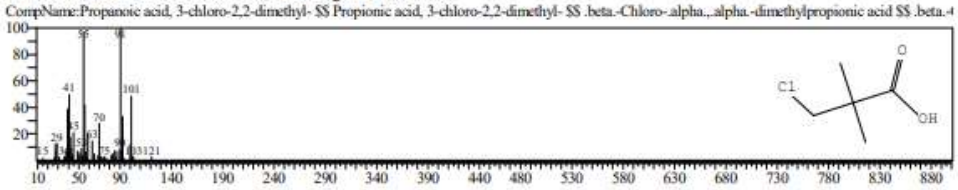
Hit#:1 Entry:4182 Library:NIST147.LIB
SI:74 Formula:C4H5NOS CAS:4166-00-1 MolWeight:115 RetIndex:0
CompName:Succinimide, thio- $$ 2-Pyrrolidinone, 5-thioxo- $$ Monothiosuccinimide $$ USAF WI-1 $$ 5-Thioxo-2-pyrrolidinone # $$



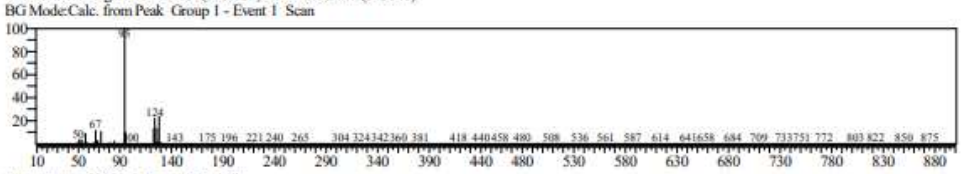
<< Target >>
Line#:18 R.Time:5.050(Scan#:487) MassPeaks:401
RawMode:Averaged 5.042-5.058(486-488) BasePeak:55.05(243797)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



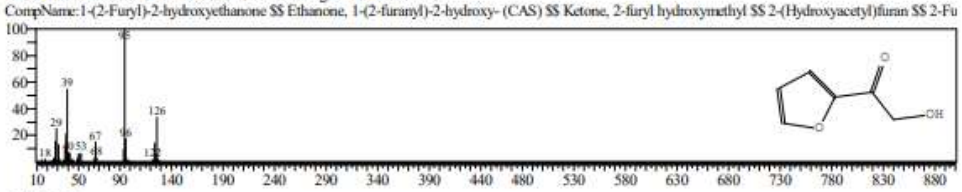
Hit#:1 Entry:32306 Library:Wiley9.lib
SI:74 Formula:C5H9ClO2 CAS:13511-38-1 MolWeight:136 RetIndex:0
CompName:Propanoic acid, 3-chloro-2,2-dimethyl- $$ Propionic acid, 3-chloro-2,2-dimethyl- $$ .beta.-Chloro-.alpha.,.alpha.-dimethylpropionic acid $$ .beta.-



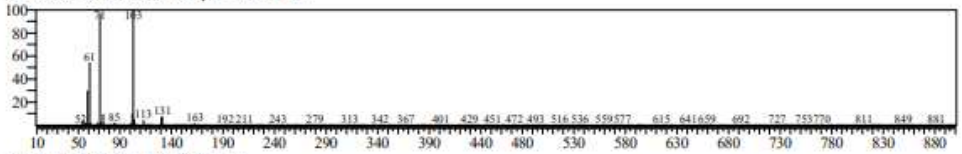
<< Target >>
Line#:19 R.Time:5.650(Scan#:559) MassPeaks:446
RawMode:Averaged 5.642-5.658(558-560) BasePeak:95.10(543040)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



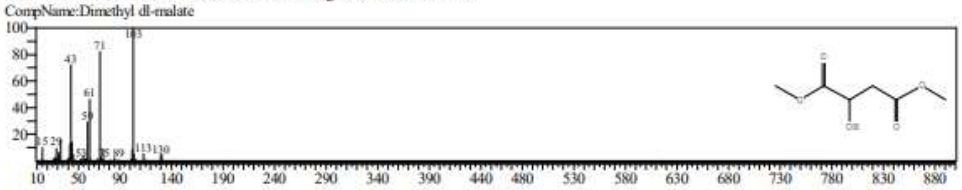
Hit#:1 Entry:22982 Library:Wiley9.lib
SI:82 Formula:C6H6O3 CAS:17678-19-2 MolWeight:126 RetIndex:0
CompName:1-(2-Furyl)-2-hydroxyethanone $$ Ethanone, 1-(2-furanyl)-2-hydroxy- (CAS) $$ Ketone, 2-furyl hydroxymethyl $$ 2-(Hydroxyacetyl)furan $$ 2-Fu



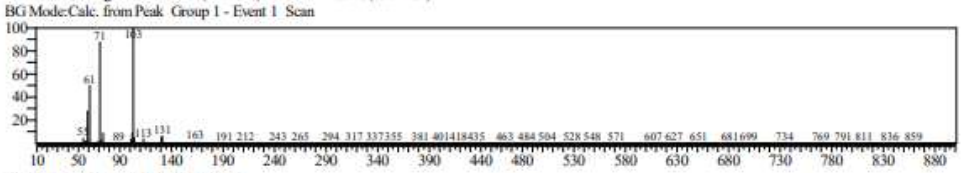
<< Target >>
Line#:20 R.Time:6.183(Scan#:623) MassPeaks:425
RawMode:Averaged 6.175-6.192(622-624) BasePeak:103.15(1328585)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



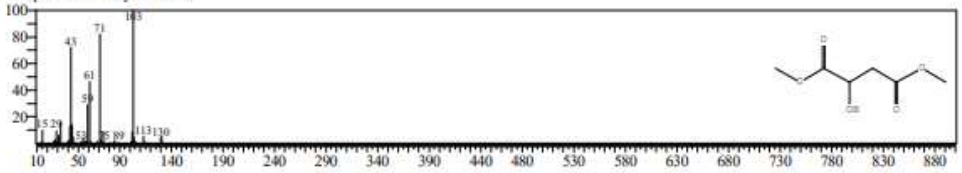
Hit#:1 Entry:36086 Library:NIST17.lib
SI:97 Formula:C6H10O5 CAS:38115-87-6 MolWeight:162 RetIndex:1115
CompName:Dimethyl dl-malate



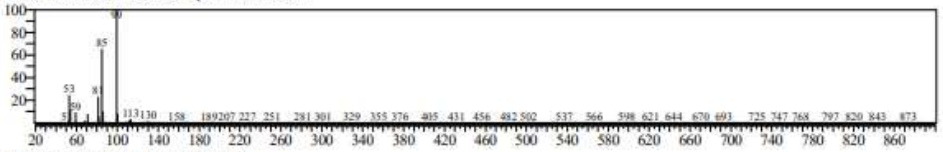
<< Target >>
Line#:21 R.Time:6.292(Scan#:636) MassPeaks:336
RawMode:Averaged 6.283-6.300(635-637) BasePeak:103.15(2961202)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



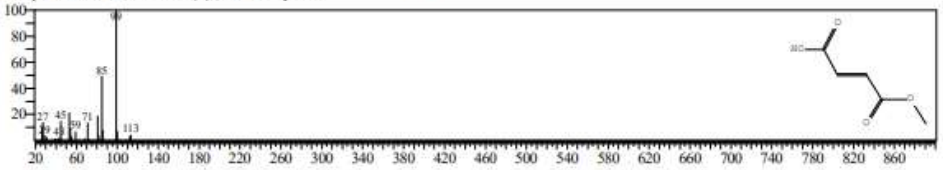
Hit#:1 Entry:36086 Library:NIST17.lib
SI:98 Formula:C6H10O5 CAS:38115-87-6 MolWeight:162 RetIndex:1115
CompName:Dimethyl dl-malate



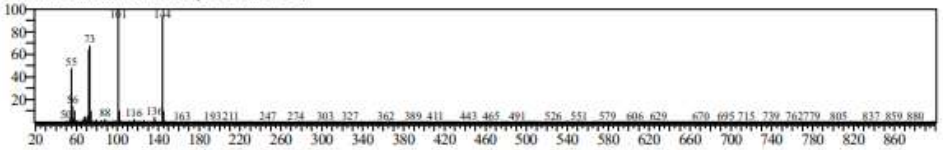
<< Target >>
Line#:22 R.Time:6.675(Scan#:682) MassPeaks:394
RawMode:Averaged 6.667-6.683(681-683) BasePeak:99.10(1262576)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



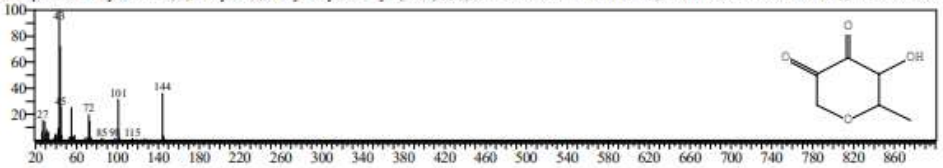
Hit#:1 Entry:14684 Library:NIST17.lib
SI:94 Formula:C5H6O4 CAS:2756-87-8 MolWeight:130 RetIndex:1050
CompName:2-Butenedioic acid (E)-, monomethyl ester



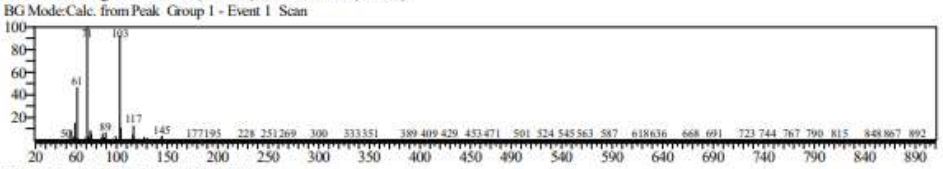
<< Target >>
Line#:23 R.Time:6.758(Scan#:692) MassPeaks:464
RawMode:Averaged 6.750-6.767(691-693) BasePeak:101.10(278767)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



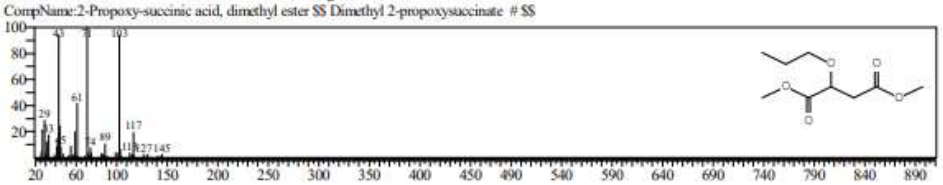
Hit#:1 Entry:42587 Library:Wiley9.lib
SI:89 Formula:C6H8O4 CAS:28564-83-2 MolWeight:144 RetIndex:0
CompName:4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl- (CAS) $$ 3,5-DIHYDROXY-2-METHYL-5,6-DIHYDROPYRAN-4-ONE $$ 4H-PYRAN-4



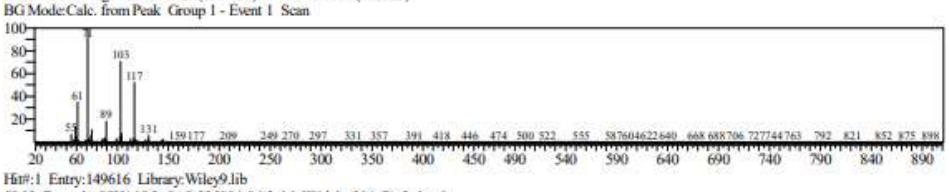
<< Target >>
Line#:24 R.Time:7.150(Scan#:739) MassPeaks:535
RawMode:Averaged 7.142-7.158(738-740) BasePeak:71.05(246893)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



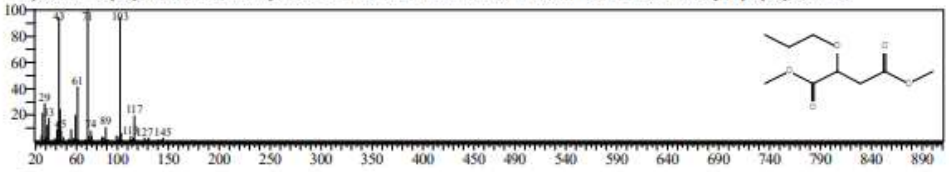
Hit#:1 Entry:41753 Library:NIST147.LIB
SI:96 Formula:C9H16O5 CAS:325984-06-3 MolWeight:204 RetIndex:0
CompName:2-Propoxy-succinic acid, dimethyl ester $$ Dimethyl 2-propoxysuccinate # $$



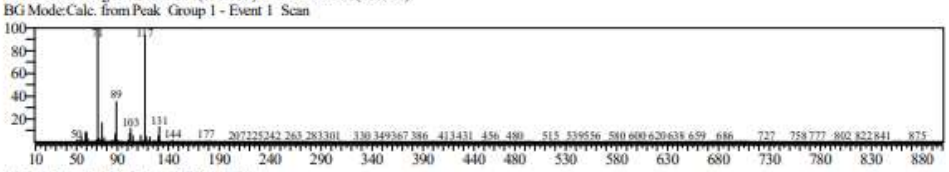
<< Target >>
Line#:25 R.Time:7.250(Scan#:751) MassPeaks:384
RawMode:Averaged 7.242-7.258(750-752) BasePeak:71.05(290755)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



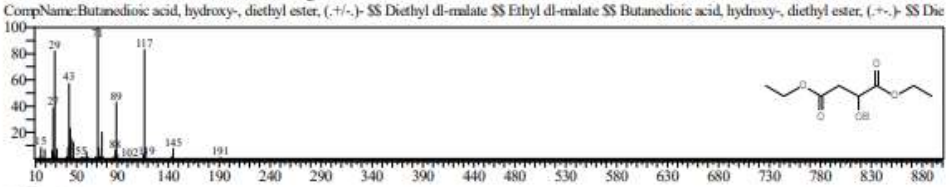
Hit#:1 Entry:149616 Library:Wiley9.lib
SI:92 Formula:C9H16O5 CAS:325984-06-3 MolWeight:204 RetIndex:0
CompName:2-Propoxy-succinic acid, dimethyl ester $$ 2-PROPOXY-SUCCINIC ACID DIMETHYL ESTER $$ Dimethyl 2-propoxysuccinate



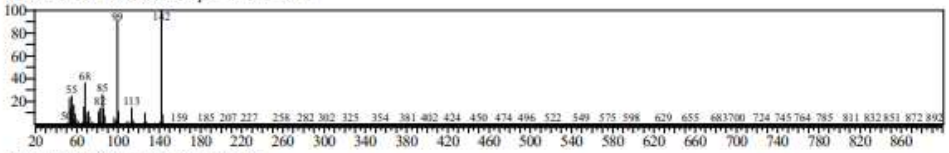
<< Target >>
Line#:26 R.Time:7.308(Scan#:758) MassPeaks:419
RawMode:Averaged 7.300-7.317(757-759) BasePeak:71.05(208918)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



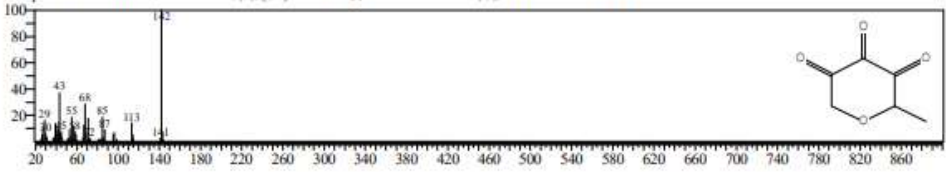
Hit#:1 Entry:34284 Library:NIST147.LIB
SI:85 Formula:C8H14O5 CAS:626-11-9 MolWeight:190 RetIndex:0
CompName:Butanedioic acid, hydroxy-, diethyl ester, (.+/-.)- $$ Diethyl dl-malate $$ Ethyl dl-malate $$ Butanedioic acid, hydroxy-, diethyl ester, (.+-.)- $$ Die



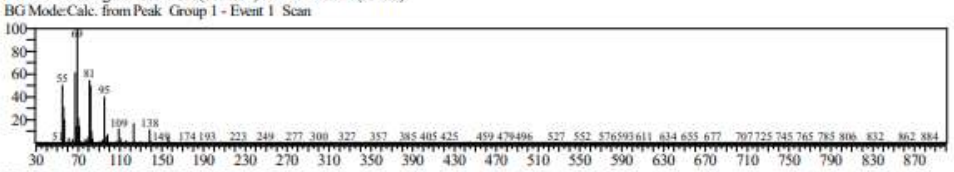
<< Target >>
Line#:27 R.Time:7.583(Scan#:791) MassPeaks:348
RawMode:Averaged 7.575-7.592(790-792) BasePeak:142.15(74476)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



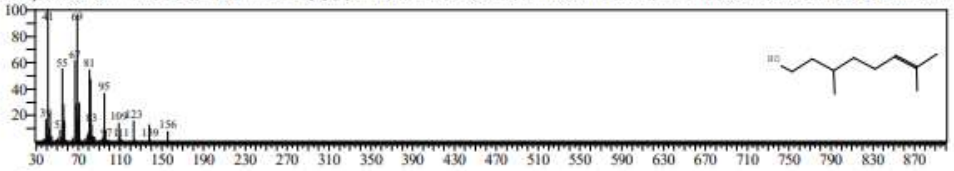
Hit#:1 Entry:33109 Library:WILEY8.LIB
SI:81 Formula:C6H6O4 CAS:0-00-0 MolWeight:142 RetIndex:0
CompName:2-METHYL-2H-PYRAN-3,4,5(6H)-TRIONE $$ 4H-PYRAN-4-ON, 3,5-DIHYDROXY-2-METHYL-



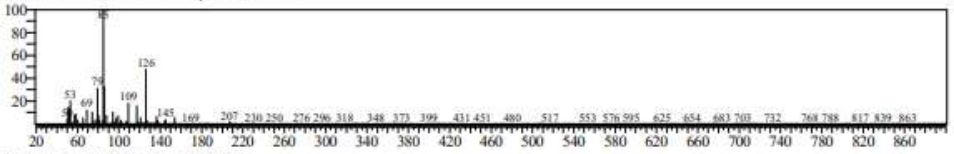
<< Target >>
Line#:28 R.Time:7.667(Scan#:801) MassPeaks:403
RawMode:Averaged 7.658-7.675(800-802) BasePeak:69.10(53123)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



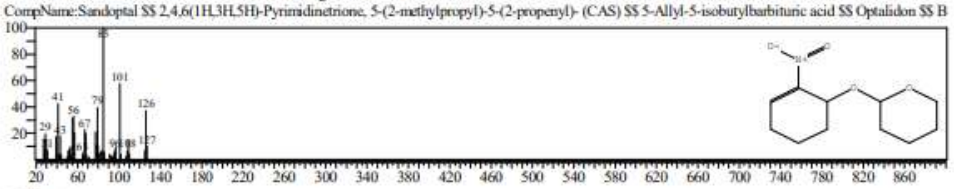
Hit#:1 Entry:49475 Library:WILEY8.LIB
SI:93 Formula:C10H20O CAS:106-22-9 MolWeight:156 RetIndex:0
CompName:6-OCTEN-1-OL, 3,7-DIMETHYL- $$ (R)-(+)-CITRONELLOL $$ .BETA.-CITRONELLOL $$ 2,3-DIHYDROGERANIOL $$ 2,6-DIMETHYL-2-



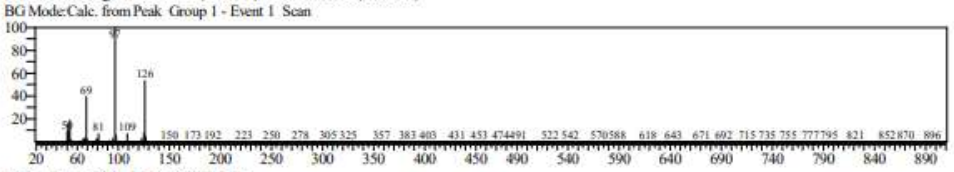
<< Target >>
Line#:29 R.Time:7.875(Scan#:826) MassPeaks:466
RawMode:Averaged 7.867-7.883(825-827) BasePeak:85.10(26077)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



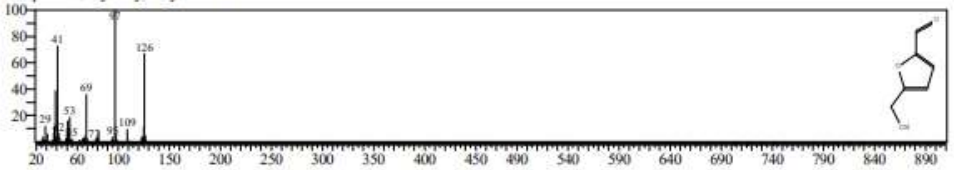
Hit#:1 Entry:204996 Library:Wiley9.lib
SI:64 Formula:C11H17NO4 CAS:77-26-9 MolWeight:227 RetIndex:0
CompName:Sandoptal $$ 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-(2-methylpropyl)-5-(2-propenyl)- (CAS) $$ 5-Allyl-5-isobutylbarbituric acid $$ Optalidon $$ B



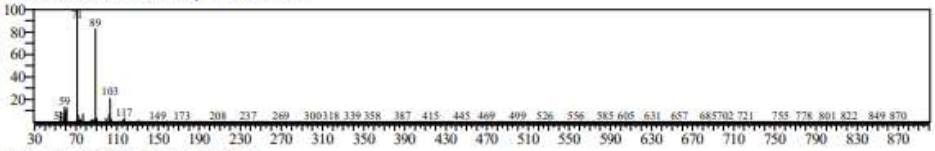
<< Target >>
Line#:30 R.Time:8.408(Scan#:890) MassPeaks:470
RawMode:Averaged 8.400-8.417(889-891) BasePeak:97.10(3925550)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



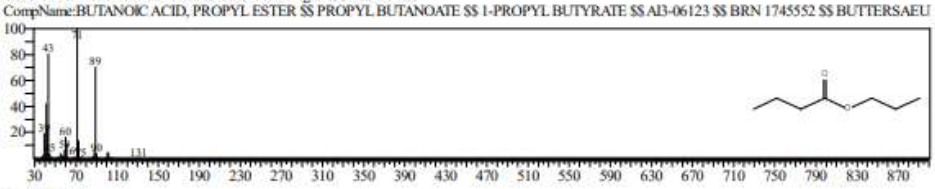
Hit#:1 Entry:12381 Library:NIST17.lib
SI:97 Formula:C6H6O3 CAS:67-47-0 MolWeight:126 RetIndex:1163
CompName:5-Hydroxymethylfurfural



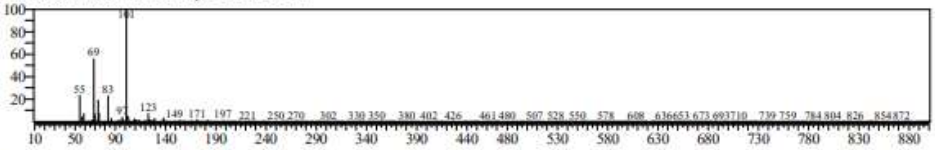
<< Target >>
Line#:31 R.Time:9.417(Scan#:1011) MassPeaks:423
RawMode:Averaged 9.408-9.425(1010-1012) BasePeak:71.05(2882928)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



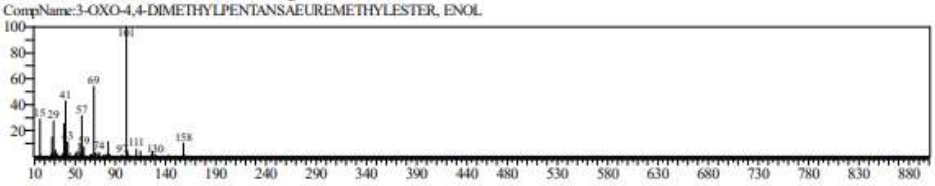
Hit#:1 Entry:23357 Library:WILEY8.LIB
SI:88 Formula:C7H14O2 CAS:105-66-8 MolWeight:130 RetIndex:0
CompName:BUTANOIC ACID, PROPYL ESTER $$ PROPYL BUTANOATE $$ 1-PROPYL BUTYRATE $$ AI3-06123 $$ BRN 1745552 $$ BUTTERSAEU



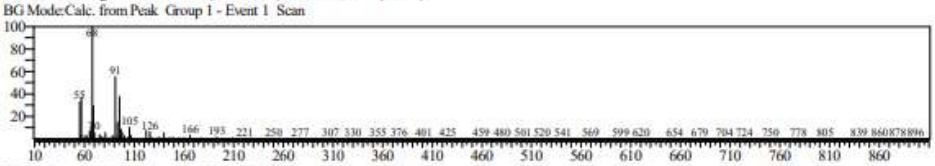
<< Target >>
Line#:32 R.Time:10.800(Scan#:1177) MassPeaks:479
RawMode:Averaged 10.792-10.808(1176-1178) BasePeak:101.10(29273)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



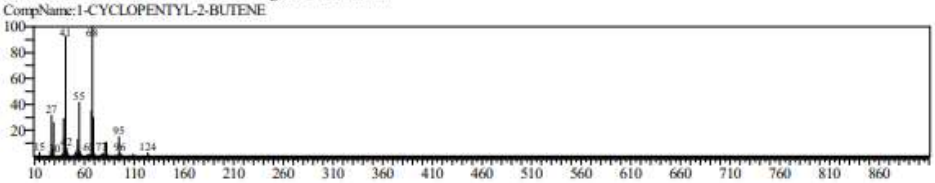
Hit#:1 Entry:63674 Library:Wiley9.lib
SI:80 Formula:C8H14O3 CAS:0-00-0 MolWeight:158 RetIndex:0
CompName:3-OXO-4,4-DIMETHYLPENTANSAEUREMETHYLESTER, ENOL



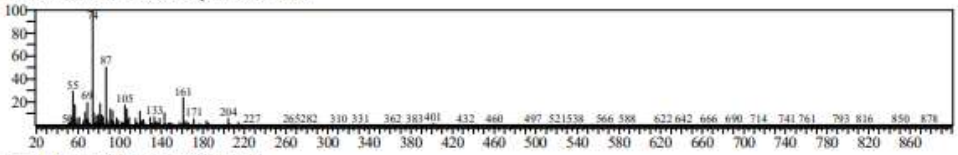
<< Target >>
Line#:33 R.Time:11.150(Scan#:1219) MassPeaks:542
RawMode:Averaged 11.142-11.158(1218-1220) BasePeak:68.10(12091)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



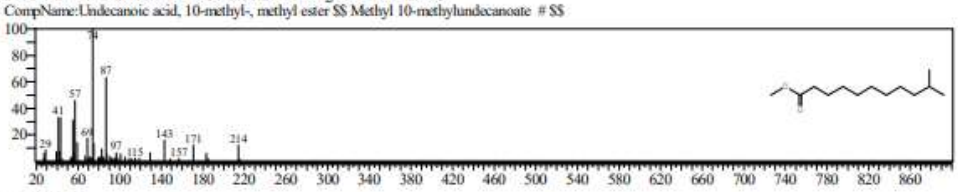
Hit#:1 Entry:19114 Library:WILEY8.LIB
SI:74 Formula:C9H16 CAS:0-00-0 MolWeight:124 RetIndex:0
CompName:1-CYCLOPENTYL-2-BUTENE



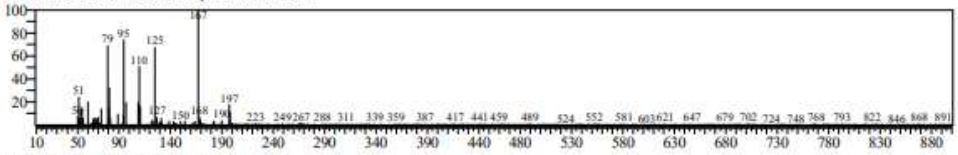
<< Target >>
Line#:34 R.Time:11.817(Scan#:1299) MassPeaks:404
RawMode:Averaged 11.808-11.825(1298-1300) BasePeak:74.10(40834)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



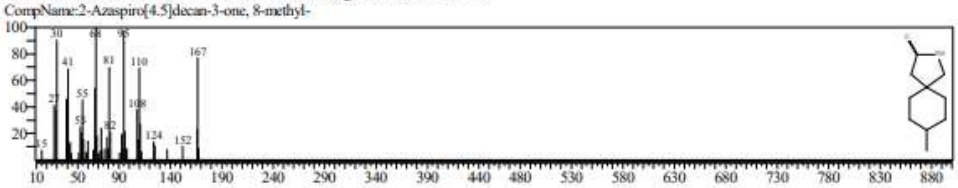
Hit#:1 Entry:47950 Library:NIST147.LIB
SI:76 Formula:C13H26O2 CAS:5129-56-6 MolWeight:214 RetIndex:0
CompName:Undecanoic acid, 10-methyl-, methyl ester $$ Methyl 10-methylundecanoate # $$



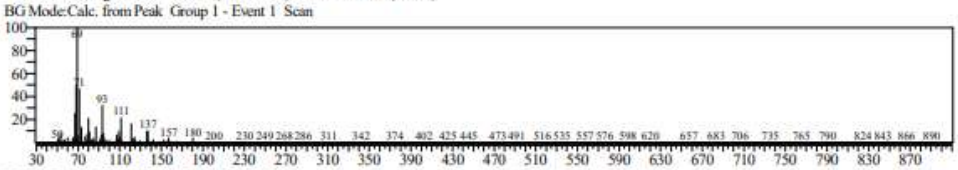
<< Target >>
Line#:35 R.Time:11.975(Scan#:1318) MassPeaks:472
RawMode:Averaged 11.967-11.983(1317-1319) BasePeak:167.20(8199)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



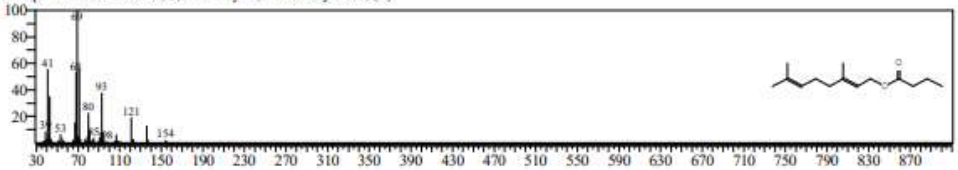
Hit#:1 Entry:40833 Library:NIST17.lib
SI:66 Formula:C10H17NO CAS:196608-77-2 MolWeight:167 RetIndex:1338
CompName:2-Azaspiro[4.5]decan-3-one, 8-methyl-



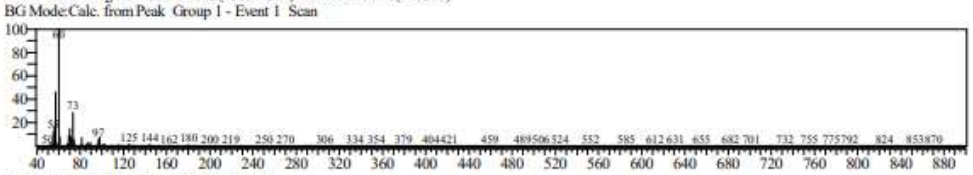
<< Target >>
Line#:36 R.Time:12.225(Scan#:1348) MassPeaks:484
RawMode:Averaged 12.217-12.233(1347-1349) BasePeak:69.10(35756)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



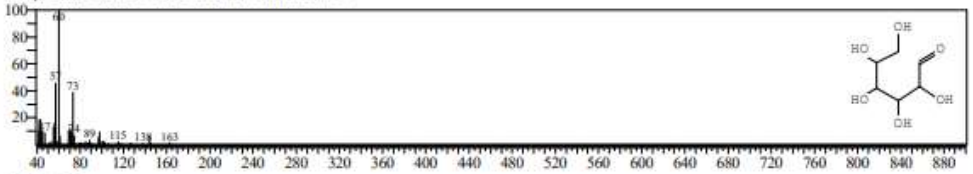
Hit#:1 Entry:96078 Library:NIST17.lib
SI:86 Formula:C14H24O2 CAS:106-29-6 MolWeight:224 RetIndex:1550
CompName:Butanoic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)-



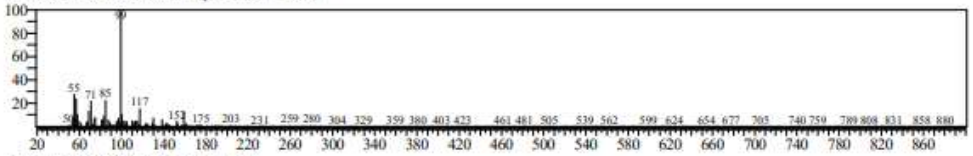
<< Target >>
Line#:37 R.Time:12.575(Scan#:1390) MassPeaks:254
RawMode:Averaged 12.567-12.583(1389-1391) BasePeak:60.10(126080)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



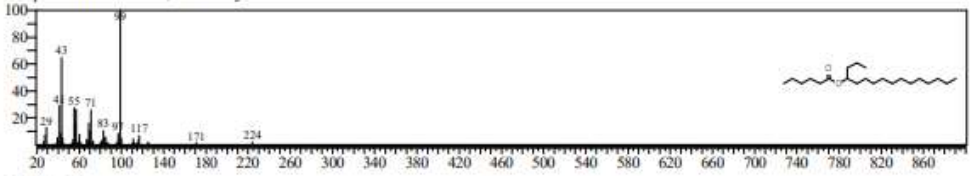
Hit#:1 Entry:28940 Library:NIST147.LIB
SI:94 Formula:C6H12O6 CAS:2595-97-3 MolWeight:180 RetIndex:0
CompName:D-Allose $$ .beta.-D-Allose $$ Hexose # $$



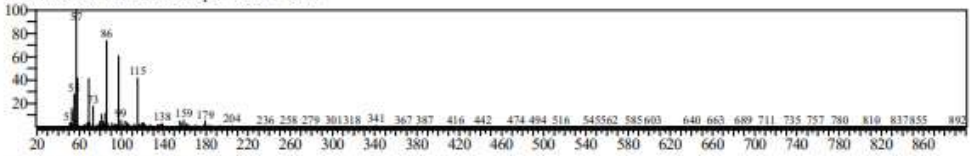
<< Target >>
Line#:38 R.Time:12.975(Scan#:1438) MassPeaks:305
RawMode:Averaged 12.967-12.983(1437-1439) BasePeak:99.15(15841)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



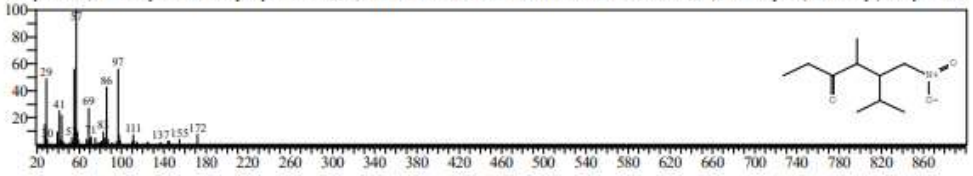
Hit#:1 Entry:219486 Library:NIST17.lib
SI:76 Formula:C22H44O2 CAS:0-00-0 MolWeight:340 RetIndex:2311
CompName:Hexanoic acid, 4-hexadecyl ester



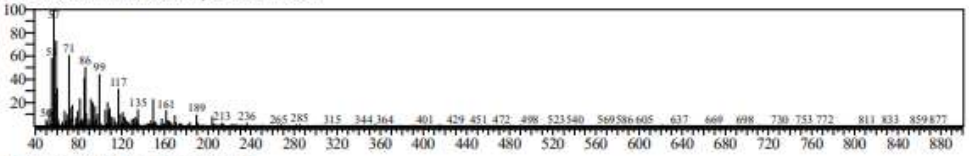
<< Target >>
Line#:39 R.Time:13.175(Scan#:1462) MassPeaks:357
RawMode:Averaged 13.167-13.183(1461-1463) BasePeak:57.10(18220)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



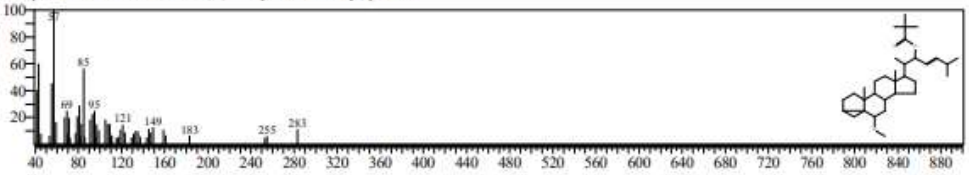
Hit#:1 Entry:144205 Library:Wiley9.lib
SI:76 Formula:C10H19NO3 CAS:0-00-0 MolWeight:201 RetIndex:0
CompName:4,6-Dimethyl-5-nitromethylheptan-3-one $$ 4,6-DIMETHYL-5-NITROMETHYL-HEPTAN-3-ONE $$ 4,6-Dimethyl-5-(nitromethyl)-3-heptanone $



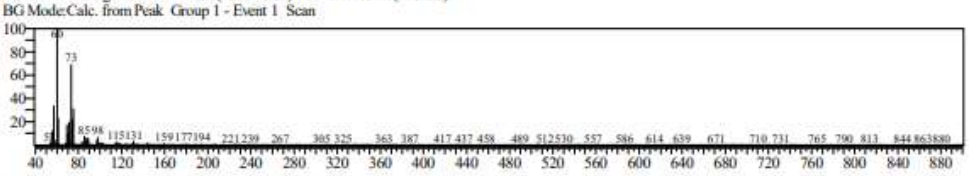
<< Target >>
Line#:40 R.Time:13.725(Scan#:1528) MassPeaks:373
RawMode:Averaged 13.717-13.733(1527-1529) BasePeak:57.10(12209)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



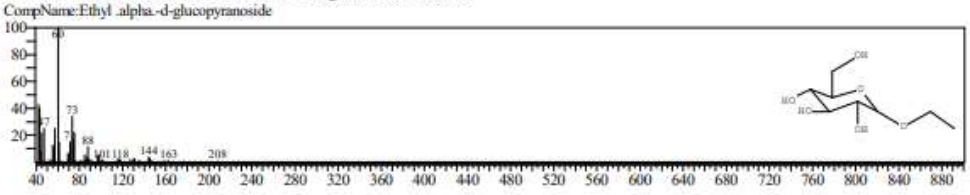
Hit#:1 Entry:295914 Library:NIST17.lib
SI:73 Formula:C33H54O3 CAS:0-00-0 MolWeight:498 RetIndex:2973
CompName:Cholest-22-ene-21-ol, 3,5-dehydro-6-methoxy-, pivalate



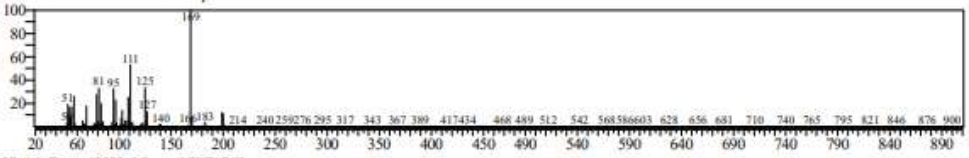
<< Target >>
Line#:41 R.Time:14.150(Scan#:1579) MassPeaks:361
RawMode:Averaged 14.142-14.158(1578-1580) BasePeak:60.10(120438)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



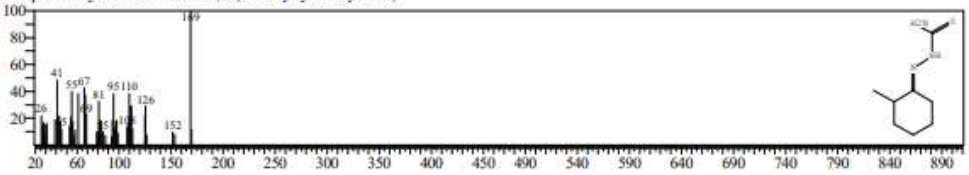
Hit#:1 Entry:78497 Library:NIST17.lib
SI:89 Formula:C8H16O6 CAS:19467-01-7 MolWeight:208 RetIndex:1813
CompName:Ethyl .alpha.-d-glucopyranoside



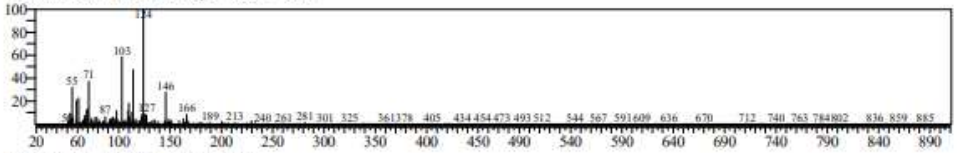
<< Target >>
Line#:42 R.Time:14.550(Scan#:1627) MassPeaks:362
RawMode:Averaged 14.542-14.558(1626-1628) BasePeak:169.20(74444)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



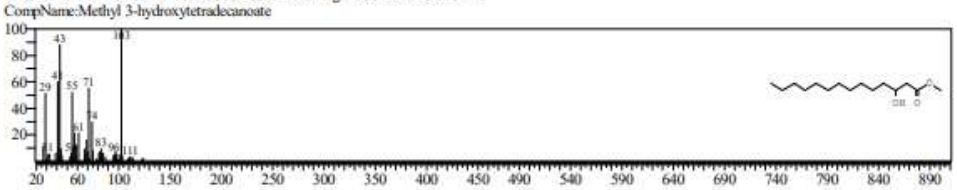
Hit#:1 Entry:42522 Library:NIST17.lib
SI:71 Formula:C8H15N3O CAS:4549-20-6 MolWeight:169 RetIndex:1681
CompName:Hydrazinecarboxamide, 2-(2-methylcyclohexylidene)-



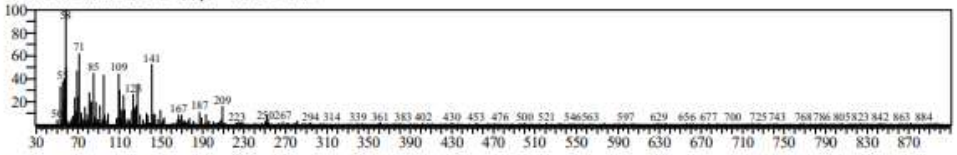
<< Target >>
Line#:43 R.Time:15.625(Scan#:1756) MassPeaks:489
RawMode:Averaged 15.617-15.633(1755-1757) BasePeak:124.20(16850)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



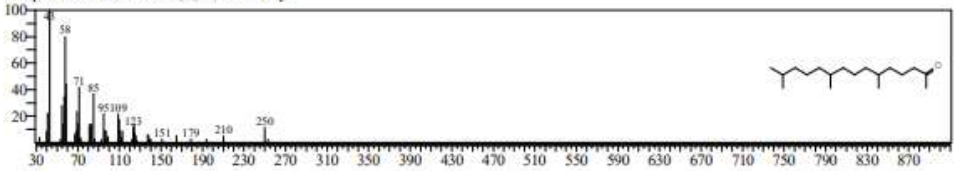
Hit#:1 Entry:131335 Library:NIST17.lib
SI:63 Formula:C15H30O3 CAS:55682-83-2 MolWeight:258 RetIndex:1842
CompName:Methyl 3-hydroxytetradecanoate



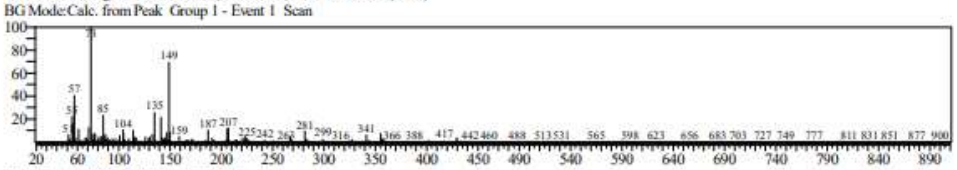
<< Target >>
Line#:44 R.Time:15.950(Scan#:1795) MassPeaks:458
RawMode:Averaged 15.942-15.958(1794-1796) BasePeak:58.10(3698)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



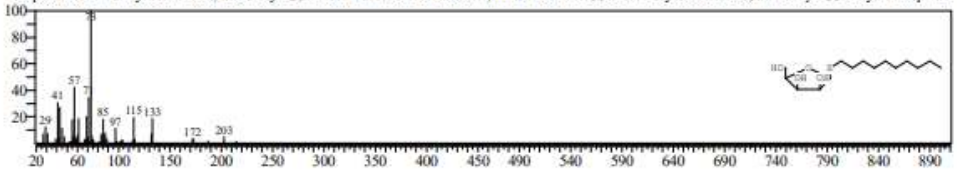
Hit#:1 Entry:142089 Library:NIST17.lib
SI:74 Formula:C18H36O CAS:502-69-2 MolWeight:268 RetIndex:1754
CompName:2-Pentadecanone, 6,10,14-trimethyl-



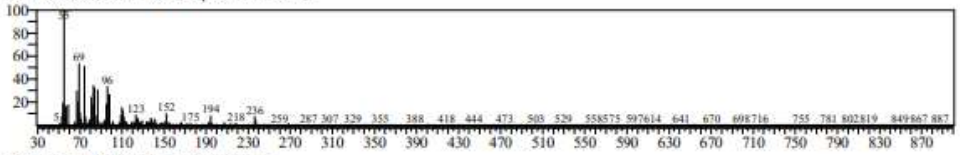
<< Target >>
Line#:45 R.Time:16.350(Scan#:1843) MassPeaks:385
RawMode:Averaged 16.342-16.358(1842-1844) BasePeak:73.10(7008)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



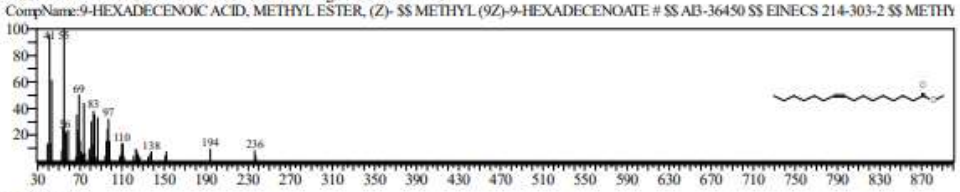
Hit#:1 Entry:386579 Library:Wiley9.lib
SI:62 Formula:C15H30O4S CAS:0-00-0 MolWeight:306 RetIndex:0
CompName:.beta.-d-Lyxofuranosid, thio-decyl- $$ BETA-D-LYXOFURANOSID, THIO-DECYL- $$ .beta.-d-Lyxofuranoside, thio-decyl- $$ Decyl 1-thiopento



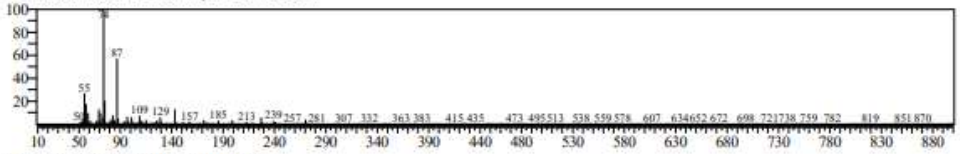
<< Target >>
Line#:46 R.Time:17.000(Scan#:1921) MassPeaks:465
RawMode:Averaged 16.992-17.008(1920-1922) BasePeak:55.10(20490)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



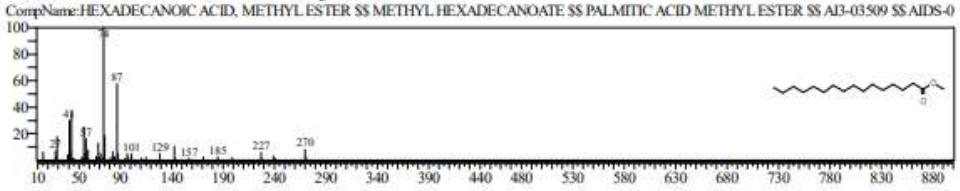
Hit#:1 Entry:199150 Library:WILEY8.LIB
SI:93 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0
CompName:9-HEXADECENOIC ACID, METHYL ESTER, (Z)- $$ METHYL (9Z)-9-HEXADECENOATE # $$ AI3-36450 $$ EINECS 214-303-2 $$ METHY



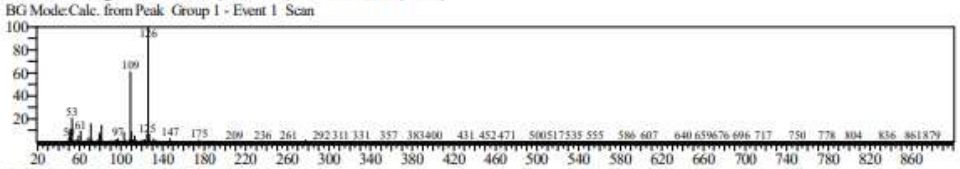
<< Target >>
Line#:47 R.Time:17.392(Scan#:1968) MassPeaks:460
RawMode:Averaged 17.383-17.400(1967-1969) BasePeak:74.10(120538)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



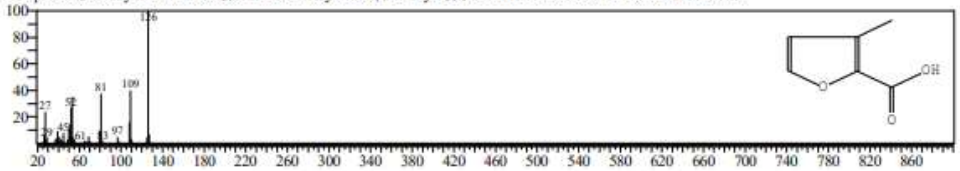
Hit#:1 Entry:201917 Library:WILEY8.LIB
SI:94 Formula:C17H34O2 CAS:112-39-0 MolWeight:270 RetIndex:0
CompName:HEXADECANOIC ACID, METHYL ESTER $$ METHYL HEXADECANOATE $$ PALMITIC ACID METHYL ESTER $$ AI3-03509 $$ AIDS-0



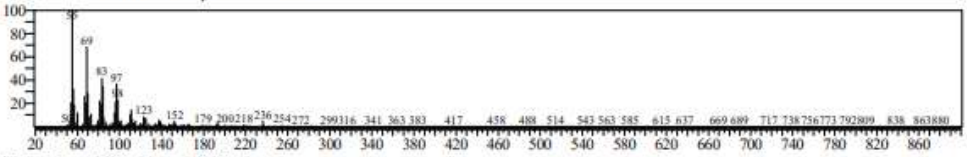
<< Target >>
Line#:48 R.Time:17.567(Scan#:1989) MassPeaks:457
RawMode:Averaged 17.558-17.575(1988-1990) BasePeak:126.15(34846)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



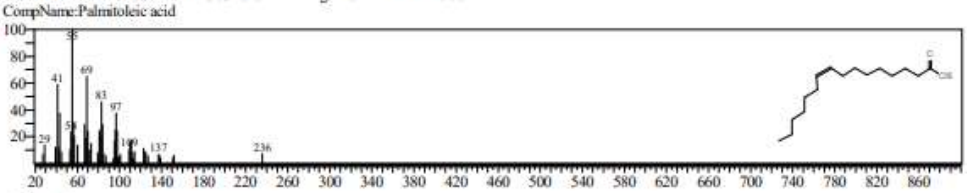
Hit#:1 Entry:23067 Library:Wiley9.lib
SI:81 Formula:C6H6O3 CAS:4412-96-8 MolWeight:126 RetIndex:0
CompName:3-Methyl-2-furoic acid $$ 2-Furancarboxylic acid, 3-methyl- $$ 3-METHYL-FURAN-2-CARBOXYLIC ACID



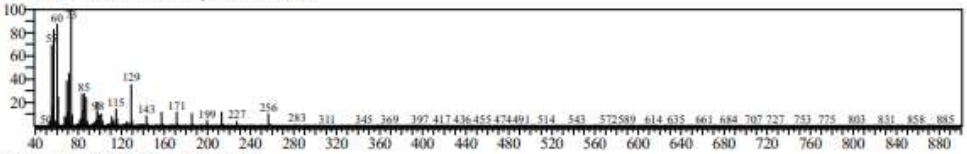
<< Target >>
Line#:49 R.Time:17.875(Scan#:2026) MassPeaks:372
RawMode:Averaged 17.867-17.883(2025-2027) BasePeak:55.10(24497)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



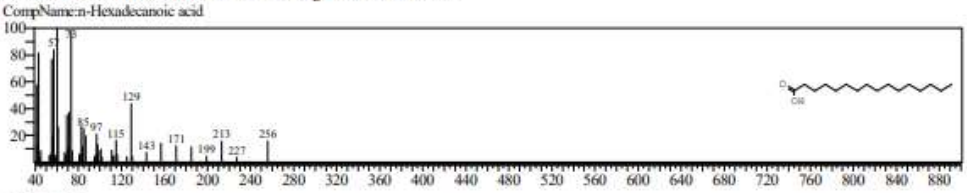
Hit#:1 Entry:126969 Library:NIST17.lib
SI:94 Formula:C16H30O2 CAS:373-49-9 MolWeight:254 RetIndex:1976
CompName:Palmitoleic acid



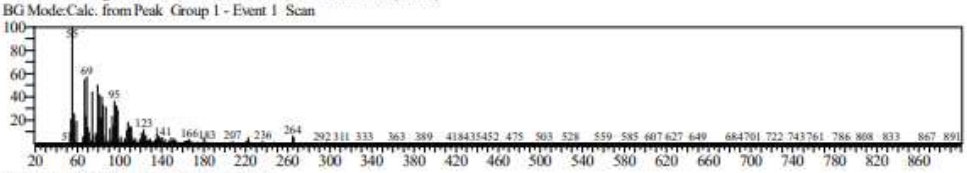
<< Target >>
Line#:50 R.Time:18.292(Scan#:2076) MassPeaks:416
RawMode:Averaged 18.283-18.300(2075-2077) BasePeak:73.10(61801)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



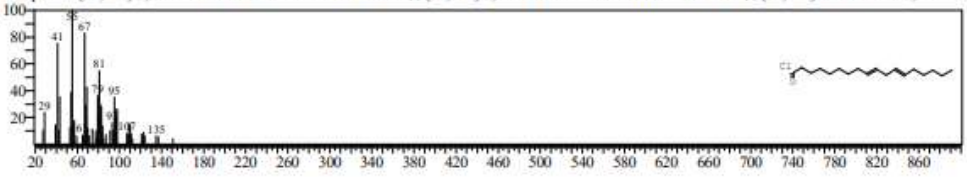
Hit#:1 Entry:129354 Library:NIST17.lib
SI:97 Formula:C16H32O2 CAS:57-10-3 MolWeight:256 RetIndex:1968
CompName:n-Hexadecanoic acid



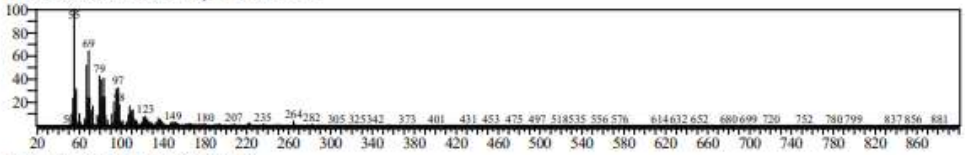
<< Target >>
Line#:51 R.Time:21.450(Scan#:2455) MassPeaks:445
RawMode:Averaged 21.442-21.458(2454-2456) BasePeak:55.10(43102)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



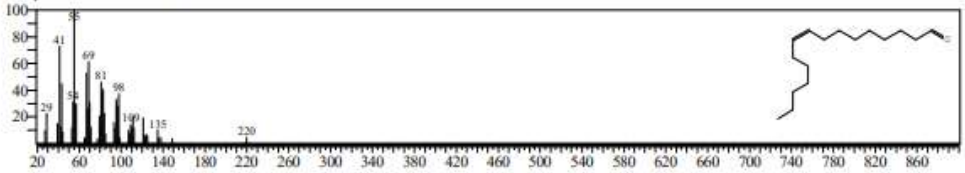
Hit#:1 Entry:237717 Library:WILEY8.LIB
SI:90 Formula:C18H31ClO CAS:7459-33-8 MolWeight:298 RetIndex:0
CompName:(9E,12E)-9,12-OCTADECADIENOYL CHLORIDE # $$ (9E,12E)-9,12-OCTADECADIENOYL CHLORIDE $$ (9Z,12Z)-OCTADECA-9,12-DIE



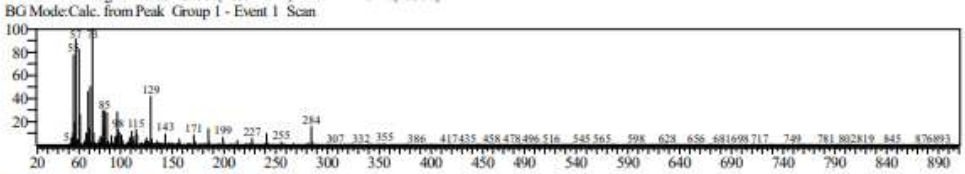
<< Target >>
Line#:52 R.Time:22.467(Scan#:2577) MassPeaks:542
RawMode:Averaged 22.458-22.475(2576-2578) BasePeak:55.10(38023)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



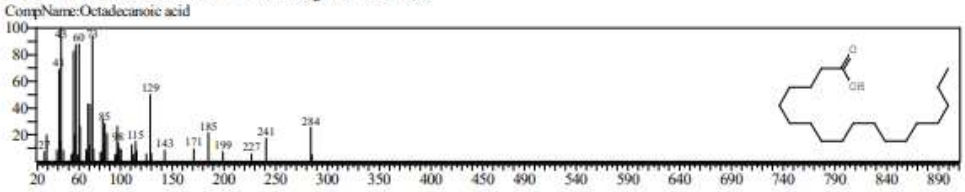
Hit#:1 Entry:20015 Library:NIST27.LIB
SI:91 Formula:C16H30O CAS:56219-04-6 MolWeight:238 RetIndex:0
CompName:cis-9-Hexadecenal



<< Target >>
Line#:53 R.Time:22.992(Scan#:2640) MassPeaks:493
RawMode:Averaged 22.983-23.000(2639-2641) BasePeak:73.10(23357)
BG Mode:Calc. from Peak Group 1 - Event 1 Scan



Hit#:1 Entry:22966 Library:NIST27.LIB
SI:95 Formula:C18H36O2 CAS:57-11-4 MolWeight:284 RetIndex:0
CompName:Octadecanoic acid



Lampiran 17. Hasil pemeriksaan cemaran mikroba ekstrak buah dengen (*Dillenia serrata* Thumb.) di Balai Besar Laboratorium Kesehatan Makassar

KEMENTERIAN KESEHATAN RI
DIREKTORAT JENDERAL PELAYANAN KESEHATAN
BALAI BESAR LABORATORIUM KESEHATAN MAKASSAR
Jl. Perintis Kemerdekaan KM.11 Tamalanrea Makassar 90245

LAPORAN HASIL UJI
Report of Analysis
No . 23003627 / LHU / BBLK-MKS / II /2023

Nama Customer/ *Customer Name*	: **Andra audina putri**
Alamat/ *Address*	: Jl. Pampang 4, Panakukkang
Tanggal Sampling/ *Sampling Date*	: -
Tanggal Registrasi/ *Registration Date*	: 20/02/2023
Tanggal Penerimaan di Lab *Received Date at Laboratory*	: 20/02/2023
Pemeriksaan/ *Test*	: Enumerasi
Jenis Sampel/ *Sampel Type*	: **Ekstrak**
Deskripsi Sampel/ *Sample Description*	: Ekstrak Etanol buah dengen (Dillenia serrata thumb)
Lokasi Sampel/ *Sample Location*	: -
Karakteristik Sampel	
Suhu/ *Temperature*	: -
Volume/Berat Sampel/ *Sample Volume*	: -
Wadah/ *Packaging*	: Botol plastik
Bentuk/ *Form*	: Semi padat

HASIL UJI MIKROBIOLOGI

Parameter	Hasil	Satuan	Metode Pengujian
Angka Lempeng Total	< 1,0 x 10¹	Koloni/g	SNI ISO 4833-1:2015
Kapang	< 4,0 x 10¹	Koloni/g	SNI ISO 21527-1&2:2012
Khamir	< 1,0 x 10¹	Koloni/g	SNI ISO 21527-1&2:2012

Catatan
Note
1. Hasil uji ini berlaku untuk sampel yang diuji
The analytical result are only valid for the tested sample
2. Laporan hasil uji ini terdiri dari 1 halaman
The report of analysis consist of 1 page
3. Laporan hasil uji ini tidak boleh digandakan kecuali secara lengkap dan seizin tertulis Laboratorium Penguji Balai Besar Laboratorium Kesehatan Makassar
This report of analysis shall not be reproduced (copyed) except for the completed one and with theis written pe of the testing Laboratory Balai Besar Laboratorium Kesehatan Makassar.
4. Komplain dapat diajukan maksimal satu minggu setelah hasil keluar
Complaint can be submitted within one week after the results have been released

Makassar, 27 Februari 2023
Sub Koordinator Lab. Lingkungan,

Arfaz Kartanegara, S.Farm
NIP. 197803122000121002

DPISBA/BBLK-MKS, 26 Juni 2019

Lampiran 18. Hasil pemeriksaan cemaran logam berat ekstrak buah dengen (*Dillenia serrata* Thumb.) di Balai Besar Laboratorium Kesehatan Makassar

KEMENTERIAN KESEHATAN RI
DIREKTORAT JENDERAL PELAYANAN KESEHATAN
BALAI BESAR LABORATORIUM KESEHATAN MAKASSAR
Jl. Perintis Kemerdekaan KM.11 Tamalanrea Makassar 90245

LAPORAN HASIL UJI
Report of Analysis
No : 23003626 / LHU / BBLK-MKS / II / 2023

Nama Customer	:	**ANDRA AUDINA PUTRI**
Customer Name	:	
Alamat	:	Jl. Pampang 4 Panakkukang Makssar
Address	:	
Jenis Sampel	:	Ekstrak Etanol Buah Dengen (Diuenia semata Thumb.)
Type of Sample (S)	:	
No. Sampel	:	23003626
No. Sample	:	
Tanggal Penerimaan	:	20 Februari 2032
Received Date	:	*20 February, 2023*
Tanggal Pengujian	:	20 Februari s/d 27 Februari 2023
Test Date	:	*February 20, 2023 to February 27, 2023*

HASIL PEMERIKSAAN

NO.	PARAMETER	SATUAN	HASIL PEMERIKSAAN	SPESIFIKASI METODE
1	Cadmium (Cd)	µg/g	0,0039	ICP-MS
2	Timbal (Pb)	µg/g	0,08	ICP-MS

Catatan : 1 Hasil uji ini berlaku untuk sampel yang diuji
Note : *The analytical result are only valid for the tested sample*
2 Laporan hasil uji ini terdiri dari 1 halaman
The report of analysis consists of 1 page
3 Laporan hasil uji ini tidak boleh digandakan kecuali secara lengkap dan seizin tertulis Laboratorium Penguji Balai Besar Laboratorium Kesehatan Makassar
This report of analysis shall not be reproduced (copyed) except for the completed one and with theis written permission of the testing Laboratory Balai Besar Laboratorium Kesehatan Makassar.

Makassar, 28 Februari 2023
Sub Koordinator Labkesmas,

ARRAZ KARTANEGARA, S.Farm
NIP : 19780421200121002

DP/5.10.3/KL/BBLK - Mks, Rev 2, 17 Mei 2022

Telp. 0411 586458, 586457, 586270, Fax. 0411 586270
Surat Elektronik : bblk_makassar@yahoo.com, bblk.mksr@gmail.com

Lampiran 19. Hasil determinasi tumbuhan Dengen (*Dillenia serrata* Thumb.) di Unit Determinasi Tumbuhan Laboratorium Farmakognosi-Fitokimi Fakultas Farmasi Universitas Muslim Indonesia

YAYASAN WAKAF UMI
UNIT DETERMINASI TUMBUHAN
LABORATORIUM FARMAKOGNOSI-FITOKIMIA
FAKULTAS FARMASI
UNIVERSITAS MUSLIM INDONESIA
Gedung Laboratorium Fakultas Farmasi Lt 3
Kampus II Universitas Muslim Indonesia Jl. Urip Sumiharjo KM 5 Makassar, Kode Pos 90132

Nomor : 0030/C/UD-FF/UMI/V/2023 Makassar, 5-5-2023
Lampiran : -
Perihal : Hasil Determinasi Tumbuhan

Kepada Yth:
Bpk/Ibu/Sdr (i) Ketua Program Studi Sarjana Farmasi
Fakultas Farmasi Universitas Muslim Indonesia
di
Makassar

Bismillah, Atas rahmat Allah SWT, bersama ini kami sampaikan hasil determinasi tumbuhan yang dikirimkan ke Unit Determinasi Tumbuhan Laboratorium Farmakognosi-Fitokimia Fakultas Farmasi Universitas Muslim Indonesia, atas :

Nama : Andra Audina Putri
Asal Instutusi : Prodi Sarjana Farmasi- FFUMI
Pekerjaan : Mahasiswa
Judul Penelitian :Standardisasi Ekstrak Etanol Buah Dengen (Dillenia serrata Thumb.)

Adapun hasil determinasi sebagai berikut:

No.	Nomor Spesimen/ Nama kolektor	Nama Tumbuhan (nama Lokal)	Spesies	Suku
1	0030 / Andra Audina Putri	Dengen	*Dillenia serrata* Thunb Sinonim : *Dillenia elliptica*	Dilleniaceae

Demikian surat keterangan ini kami sampaikan untuk dipergunakan sebagaimana mestinya.

Determinator I
Dr.apt.Asni Amin.,S.Si.,M.Farm.

Determinator II
apt. Aktsar Roskiana,S.Farm, M.Farm,Ph.D

Mengetahui
Kepala Labotarorium Farmakognosi-Fitokimia UMI

(apt. Virsa Handayani.,S.Farm.,M.Farm)

Web https://sites.google.com/view/lab-farmakognosi-fitokimia/beranda
Blog : fitokimiaumi.wordpress.com