

**Method: MARINE1**  
**MARINE OIL ANALYSIS**

Version: 1.02

Description: Marine Oil Fatty Acid Analysis

**Naming Table:**

Index	Peak Name	IUPAC / Systematic Name	Other Names
1	10:0	Decanoic Acid	Capric Acid
2	11:0 iso	9-Methyldecanoic Acid	9-Methylcapric Acid
3	11:0 anteiso	8-Methyldecanoic Acid	8-Methylcapric Acid
4	11:0	Undecanoic Acid	Undecylic Acid
5	10:0 2OH	2-Hydroxydecanoic Acid	2-Hydroxycapric Acid
6	10:0 3OH	3-Hydroxydecanoic Acid	3-Hydroxycapric Acid
0	Phthalate 1	---	---
7	12:0 iso	10-Methylundecanoic Acid	Isolauric Acid
8	12:0 anteiso	9-Methylundecanoic Acid	Anteisolauric Acid
9	12:3 w3c	(3Z, 6Z, 9Z)-3,6,9-Dodectrienoic Acid	---
10	12:1 w5c	(7Z)-7-Dodecenoic Acid	---
11	12:0	Dodecanoic Acid	Lauric Acid
0	11:0 iso 3OH	3-Hydroxy-9-Methyldecanoic Acid	---
12	13:0 iso	11-Methyldodecanoic Acid	Isotridecanoic Acid
13	13:0 anteiso	10-Methyldodecanoic Acid	Anteisotridecanoic Acid
14	13:1 w5c	(8Z)-8-Tridecenoic Acid	---
15	13:1 w4c	(9Z)-9-Tridecenoic Acid	---
16	13:1 w3c	(10Z)-10-Tridecenoic Acid	---
17	13:0	Tridecanoic Acid	Tridecylic Acid
0	12:0 2OH	2-Hydroxydodecanoic Acid	2-Hydroxylauric Acid
18	14:1 iso w7c	(6Z)-12-Methyl-6-Tridecenoic Acid	---

19	14:0 iso	12-Methyltridecanoic Acid	Isomyristic Acid
20	14:0 anteiso	11-Methyltridecanoic Acid	Anteismyristic Acid
21	14:1 w9c	(5Z)-5-Tetradecenoic Acid	---
22	14:3 w3c	(5Z, 8Z, 11Z)-5,8,11-Tetradectrienoic Acid	---
23	14:1 w7c	(7Z)-7-Tetradecenoic Acid	---
24	14:1 w5c	(9Z)-9-Tetradecenoic Acid	Myristoleic Acid
25	15:0 aldehyde	Pentadecanal	---
26	14:0	Tetradecanoic Acid	Myristic Acid
0	14:0 iso 3OH	3-Hydroxy-12-Methyltridecanoic Acid	---
27	15:1 iso w9c	(5Z)-13-Methyl-5-Tetradecenoic Acid	---
28	15:1 iso w6c	(8Z)-13-Methyl-8-Tetradecenoic Acid	---
29	15:1 anteiso w9c	(5Z)-12-Methyl-5-Tetradecenoic Acid	---
30	15:0 iso	13-Methyltetradecanoic Acid	13-Methylmyristic Acid
31	15:3 w3c	(6Z,9Z,12Z)-6,9,12-Pentadecatrienoic Acid	---
32	15:0 anteiso	12-Methyltetradecanoic Acid	12-Methylmyristic Acid
33	15:1 w9c	(6Z)-6-Pentadecenoic Acid	---
34	15:1 w7c	(8Z)-8-Pentadecenoic Acid	---
35	15:1 w6c	(9Z)-9-Pentadecenoic Acid	---
36	15:1 w5c	(10Z)-10-Pentadecenoic Acid	---
37	16:1 w9c aldehyde	(7Z)-7-Hexadienal	---
38	16:0 aldehyde	Hexadecanal	Palmitaldehyde
39	15:0	Pentadecanoic Acid	Pentadecylic Acid
0	14:0 2OH	2-Hydroxytetradecanoic Acid	2-Hydroxymyristic Acid
40	16:1 w7c alcohol	(9Z)-9-Hexadecen-1-ol	Palmitoleyl alcohol
0	14:0 3OH	3-Hydroxytetradecanoic Acid	3-Hydroxymyristic Acid
41	16:0 N alcohol	1-Hexadecanol	1-Cetanol
42	16:3 w6c	(4Z,7Z,10Z)-4,7,10-Hexadecatrienoic Acid	---
43	16:0 iso	14-Methylpentadecanoic Acid	Isopalmitic Acid
44	16:4 w3c	(4Z,7Z,10Z,13Z)-4,7,10,13-Hexadecatetraenoic Acid	---
45	16:0 anteiso	13-Methylpentadecanoic Acid	Anteisopalmitic Acid
46	16:1 w9c	(7Z)-7-Hexadecenoic Acid	cis-7-Palmitoleic Acid

47	16:3 w3c	(7Z,10Z,13Z)-7,10,13-Hexadecenoic Acid	---
48	16:1 w7c	(9Z)-9-Hexadecenoic Acid	Palmitoleic Acid
49	16:1 w6c	(10Z)-10-Hexadecenoic Acid	cis-10-Palmitoleic Acid
50	16:1 w5c	(11Z)-11-Hexadecenoic Acid	cis-11-Palmitoleic Acid
51	16:1 w4c	(12Z)-12-Hexadecenoic Acid	cis-12-Palmitoleic Acid
52	16:1 w3c	(13Z)-13-Hexadecenoic Acid	cis-13-Palmitoleic Acid
53	16:0	Hexadecanoic Acid	Palmitic Acid
54	17:1 iso w10c	(6Z)-15-Methyl-6-Hexadecenoic Acid	---
55	16:0 10-methyl	10-Methylhexadecanoic Acid	10-Methylpalmitic Acid
56	17:1 iso w9c	(7Z)-15-Methyl-7-Hexadecenoic Acid	---
57	17:1 anteiso w9c	(7Z)-14-Methyl-7-Hexadecenoic Acid	---
58	17:1 anteiso w7c	(9Z)-14-Methyl-9-Hexadecenoic Acid	---
59	17:0 iso	15-Methylhexadecanoic Acid	Isomargaric Acid
60	17:0 anteiso	14-Methylhexadecanoic Acid	Anteisomargaric Acid
61	17:1 w9c	(8Z)-8-Heptadecenoic Acid	---
62	17:1 w7c	(10Z)-10-Heptadecenoic Acid	---
63	17:1 w6c	(11Z)-11-Heptadecenoic Acid	---
64	17:0 cyclo w7c	cis-9,10-Methylene-Hexadecanoic Acid	---
65	17:1 w5c	(12Z)-12-Heptadecenoic Acid	---
66	17:1 w4c	(13Z)-13-Heptadecenoic Acid	---
67	17:1 w3c	(14Z)-14-Heptadecenoic Acid	---
68	17:0	Heptadecanoic Acid	Margaric Acid
69	17:1 w7c 10-methyl	(10Z)-10-Methyl-10-Heptadecenoic Acid	---
70	16:0 2OH	2-Hydroxyhexadecanoic Acid	2-Hydroxypalmitic Acid
71	17:0 10-methyl	10-Methylheptadecanoic Acid	---
72	18:3 w6c	(6Z,9Z,12Z)-6,9,12-Octadecatrienoic Acid	---
73	18:0 iso	16-Methylheptadecanoic Acid	Isostearic Acid
74	18:4 w3c	(6Z,9Z,12Z,15Z)-6,9,12,15-Octadecatetraenoic Acid	---
75	18:2 w6c	(9Z,12Z)-9,12-Octadecadienoic Acid	Linoleic Acid (LA)
76	18:1 w9c	(9Z)-9-Octadecenoic Acid	Oleic Acid
77	18:3 w3c	(9Z,12Z,15Z)-9,12,15-Octadectrienoic Acid	---

78	18:1 w7c	(11Z)-11-Octadecenoic Acid	cis-Vaccenic Acid
79	18:1 w6c	(12Z)-12-Octadecenoic Acid	cis-12-Oleic Acid
80	Phytol	(2E,7R,11R)-3,7,11,15-tetramethyl-2-hexadecen-1-ol	---
81	18:1 w5c	(13Z)-13-Octadecenoic Acid	cis-13-Oleic Acid
82	18:1 w3c	(15Z)-15-Octadecenoic Acid	cis-15-Oleic Acid
83	18:0 cyclo w6c	cis-11,12-Methylene-Heptadecanoic Acid	---
84	18:0	Octadecanoic Acid	Stearic Acid
85	18:1 w7c 10-methyl	(11Z)-10-Methyl-11-Octadecenoic Acid	---
86	17:0 iso 3OH		---
87	18:0 10-methyl	10-Methyloctadecanoic Acid	Tuberculostearic Acid
88	19:4 w6c	(4Z, 7Z,10Z,13Z)-4,7,10,13-Nonadecatetraenoic Acid	---
89	19:3 w6c	(7Z,10Z,13Z)-7,10,13-Nonadecatrienoic Acid	---
90	19:0 iso	17-Methyloctadecanoic Acid	17-Methylstearic Acid
91	19:3 w3c	(10Z,13Z,16Z)-10,13,16-Nonadecatrienoic Acid	---
92	19:0 anteiso	16-Methyloctadecanoic Acid	16-Methylstearic Acid
93	19:1 w9c	(10Z)-10-Nonadecenoic Acid	---
94	19:1 w7c	(12Z)-12-Nonadecenoic Acid	---
95	19:1 w6c	(13Z)-13-Nonadecenoic Acid	---
96	19:0 cyclo w9c	cis-9,10-Methylene-Octadecanoic Acid	Dihydrosterculic Acid
97	19:0 cyclo w7c	cis-11,12-Methylene-Octadecanoic Acid	Lactobacillic Acid
98	19:0 cyclo w6c	cis-12,13-Methylene-Octadecanoic Acid	---
0	19:0	Nonadecanoic	Nonadecylic Acid
99	19:1 w7c 10-methyl	(12Z)-10-Methyl-12-Nonadecenoic Acid	---
100	20:4 w6c	(5Z,8Z,11Z,14Z)-5,8,11,14-Icosatetraenoic Acid	Arachidonic Acid (AA)
101	20:5 w3c	(5Z,8Z,11Z,14Z,17Z)-5,8,11,14,17-Icosapentaenoic Acid	Eicosapentaenoic Acid (EPA)
102	20:3 w6c	(8Z,11Z,14Z)-8,11,14-Icosatrienoic Acid	---
103	20:4 w3c	(8Z,11Z,14Z,17Z)-8,11,14,17-Icosatetraenoic Acid	---
104	20:1 w11c	(9Z)-9-Icosenoic Acid	
105	20:1 w9c	(11Z)-11-Icosenoic Acid	Gondoic Acid
106	20:3 w3c	(11Z,14Z,17Z)-11,14,17-Icostrienoic Acid	---
107	20:1 w7c	(13Z)-13-Icosenoic Acid	---

108	20:1 w4c	(16Z)-16-Icosenoic Acid	---
109	20:0 cyclo w6c	cis-13,14-Methylene-Nonadecanoic Acid	---
110	20:0	Icosanoic Acid	Arachidic Acid
111	20:0 10-methyl	10-Methylicosanoic Acid	---
112	21:5 w3c	(6Z,9Z,12Z,15Z,18Z)-6,9,12,15,18-Heneicosapentaenoic Acid	---
113	21:3 w6c	(9Z,12Z,15Z)-9,12,15-Heneicosatrienoic Acid	---
114	21:3 w3c	(12Z,15Z,18Z)-12,15,18-Heneicosatrienoic Acid	---
115	21:1 w9c	(12Z)-12-Heneicosenoic Acid	---
116	21:1 w6c	(15Z)-15-Heneicosenoic Acid	---
117	21:1 w5c	(16Z)-16-Heneicosenoic Acid	---
118	21:1 w4c	(17Z)-17-Heneicosenoic Acid	---
119	21:1 w3c	(18Z)-18-Heneicosenoic Acid	---
120	21:0	Heneicosanoic Acid	Heneicosylic Acid
121	22:5 w6c	(4Z,7Z,10Z,13Z,16Z)-4,7,10,13,16-Docosapentaenoic Acid	Osbond Acid
122	22:6 w3c	(4Z,7Z,10Z,13Z,16Z,19Z)-4,7,10,13,16,19-Docosahexaenoic Acid	Docosahexaenoic Acid (DHA)
123	22:4 w6c	(7Z,10Z,13Z,16Z)-7,10,13,16-Docosatetraenoic Acid	Adrenic Acid
124	22:5 w3c	(7Z,10Z,13Z,16Z,19Z)-7,10,13,16,19-Docosapentaenoic Acid	Docosapentaenoic (DPA)
125	22:0 iso	20-Methylhenicosanoic Acid	Isobehenic Acid
126	22:1 w11c	(11Z)-11-Docosenoic Acid	Cetoleic Acid
127	22:1 w9c	(13Z)-13-Docosenoic Acid	Erucic Acid
128	22:3 w3c	(13Z,16Z,19Z)-13,16,19-Docostrienoic Acid	---
129	22:1 w6c	(16Z)-16-Docosenoic Acid	---
130	22:1 w5c	(17Z)-17-Docosenoic Acid	---
131	22:1 w3c	(19Z)-19-Docosenoic Acid	---
132	22:0 cyclo w6c	cis-15,16-Methylene-Heneicosanoic Acid	---
133	22:0	Docosanoic Acid	Behenic Acid
0	Phthalate 2	---	---
134	22:0 10-methyl	10-Methyldocosanoic Acid	---
135	23:4 w6c	(8Z,11Z,14Z,17Z)-8,11,14,17-Tricosatetraenoic Acid	---
136	23:3 w6c	(11Z,14Z,17Z)-11,14,17-Tricosatrienoic Acid	---
137	23:3 w3c	(14Z,17Z,20Z)-14,17,20-Tricosatrienoic Acid	---

138	23:1 w5c	(18Z)-18-Tricosenoic Acid	---
139	23:1 w4c	(19Z)-19-Tricosenoic Acid	---
140	23:0	Tricosanoic Acid	Tricosylic Acid
141	24:4 w6c	(9Z,12Z,15Z,18Z)-9,12,15,18-Tetracosatetraenoic Acid	Tetracosatetraenoic Acid
142	24:3 w6c	(12Z,15Z,18Z)-12,15,18-Tetracosatrienoic Acid	---
143	24:3 w3c	(15Z,18Z,21Z)-15,18,21- Tetracosatrienoic Acid	---
144	24:1 w9c	(15Z)-15-Tetracosenoic Acid	Nervonic Acid
145	24:1 w7c	(17Z)-17-Tetracosenoic Acid	---
146	24:1 w3c	(21Z)-21-Tetracosenoic Acid	---
147	24:0	Tetracosanoic Acid	Lignoceric Acid