

Fatty Acids and Related Masses

Systematic Fatty Acid Name	Common Fatty Acid Name	Abbrev.	ECN			Fatty Acid Mass	[RCOO+58] <sup>+</sup>	[RCO] <sup>+</sup>	[RCOO] <sup>-</sup>	Pure	Pure	Pure	Pure	Fatty Acid
			C	U	ECN					Triglyceride	Triglyceride	Diglyceride	Diglyceride	Methyl Ester
										(- mode)	Nominal	Nominal	Nominal	Nominal
Butanoic	Butyric	Bu	4	0	4	88.052	145.09	71.05	87.045	302.17	302	215.13	215	102.068
Pentanoic	Valeric	V	5	0	5	102.068	159.102	85.065	101.060	344.22	344	243.16	243	116.084
Hexanoic	Caproic	Co	6	0	6	116.084	173.118	99.081	115.076	386.27	386	271.19	271	130.099
Heptanoic	Enanthic	En	7	0	7	130.099	187.133	113.097	129.092	428.31	428	299.22	299	144.115
Octanoic	Caprylic	Cy	8	0	8	144.115	201.149	127.112	143.107	470.36	470	327.25	327	158.131
Nonanoic	Pelargonic		9	0	9	158.131	215.165	141.128	157.123	512.41	512	355.28	355	172.146
Decanoic	Capric	Ca	10	0	10	172.146	229.180	155.144	171.139	554.45	554	383.32	383	186.162
Hendecanoic	Undecylic		11	0	11	186.162	243.196	169.159	185.154	596.50	596	411.35	411	200.178
Dodecanoic	Lauric	La	12	0	12	200.178	257.212	183.175	199.170	638.55	638	439.38	439	214.193
Tridecanoic	Tridecylic		13	0	13	214.193	271.227	197.191	213.185	680.60	680	467.41	467	228.209
Tetradecanoic	Myristic	M	14	0	14	228.209	285.243	211.206	227.201	722.64	722	495.44	495	242.225
Pentadecanoic	Pentadecylic		15	0	15	242.225	299.259	225.222	241.217	764.69	764	523.47	523	256.240
Hexadecanoic	Palmitic	P	16	0	16	256.240	313.274	239.237	255.232	806.74	806	551.50	551	270.256
c-9-Hexadecenoic	Palmitoleic (n-7)	Po	16	1	14	254.225	311.259	237.222	253.217	800.69	800	547.47	547	268.240
t-9-Hexadecenoic	Palmitelaidic (n-7)	Pe	16	1	14	254.225	311.259	237.222	253.217	800.69	800	547.47	547	268.240
Heptadecanoic	Margaric		17	0	17	270.256	327.290	253.253	269.248	848.78	848	579.54	579	284.272
Octadecanoic	Stearic	S	18	0	18	284.272	341.306	267.269	283.264	890.83	890	607.57	607	298.287
c-9-Octadecenoic	Oleic (n-9)	O	18	1	16	282.256	339.290	265.253	281.248	884.78	884	603.54	603	296.272
t-9-Octadecenoic	Elaidic (n-9)	Ei	18	1	16	282.256	339.290	265.253	281.248	884.78	884	603.54	603	296.272
c-9,12-Octadecadienoic	Linoleic (ω-6)	L	18	2	14	280.240	337.274	263.237	279.232	878.74	878	599.50	599	294.256
c-9,12,15-Octadecatrienoic	α-Linolenic (ω-3)	Ln	18	3	12	278.225	335.259	261.222	277.217	872.69	872	595.47	595	292.240
c-6,9,12-Octadecatrienoic	γ-Linolenic (ω-6) = GLA	γ-Ln	18	3	12	278.225	335.259	261.222	277.217	872.69	872	595.47	595	292.240
c-6,9,12,15-Octadecatetraenoic	Stearidonic (ω-3)	St	18	4	10	276.209	333.243	259.206	275.201	866.64	866	591.44	591	290.225
Nonadecanoic	Nonadecylic		19	0	19	298.287	355.321	281.284	297.279	932.88	932	635.60	635	312.303
Eicosanoic	Arachidic	A	20	0	20	312.303	369.337	295.300	311.295	974.92	974	663.63	663	326.318
c-9-Eicosenoic	Gadoleic (n-11)	G	20	1	18	310.287	367.321	293.284	309.279	968.88	968	659.60	659	324.303
c-11-Eicosenoic	Gondoic (n-9)	Go	20	1	18	310.287	367.321	293.284	309.279	968.88	968	659.60	659	324.303
c-11,14-Eicosadienoic	DihomoLinoleic (ω-6)	C <sub>20:2</sub>	20	2	16	308.272	365.306	291.269	307.264	962.83	962	655.57	655	322.287
c-11,14,17-Eicosatrienoic	DihomoLinolenic (ω-3) = ETA	C <sub>20:3</sub>	20	3	14	306.256	363.290	289.253	305.248	956.78	956	651.54	651	320.272
c-8,11,14-Eicosatrienoic	DihomoGammaLinolenic (ω-6)	C <sub>20:3</sub>	20	3	14	306.256	363.290	289.253	305.248	956.78	956	651.54	651	320.272
c-5,8,11-Eicosatrienoic	Mead Acid	C <sub>20:3</sub>	20	3	14	306.256	363.290	289.253	305.248	956.78	956	651.54	651	320.272
c-5,8,11,14-Eicosatetraenoic	Arachidonic (ω-6)	Ao	20	4	12	304.240	361.274	287.237	303.232	950.74	950	647.50	647	318.256
c-8,11,14,17-Eicosatetraenoic	Eicosatetraenoic (ω-3)	C <sub>20:4</sub>	20	4	12	304.240	361.274	287.237	303.232	950.74	950	647.50	647	318.256
c-5,8,11,14,17-EicosaPentaenoic	EPA (ω-3)	Ep	20	5	10	302.225	359.259	285.222	301.217	944.69	944	643.47	643	316.240
Heneicosanoic	Heneicosylic		21	0	21	326.318	383.353	309.316	325.311	1016.97	1016	691.66	691	340.334
Docosanoic	Behenic	B	22	0	22	340.334	397.368	323.331	339.326	1059.02	1058	719.69	719	354.350
c-13-Docosenoic	Erucic (n-9)	E	22	1	20	338.318	395.353	321.316	337.311	1052.97	1052	715.66	715	352.334
c-13,16-Docosadienoic	Docosadienoic (ω-6)	C <sub>22:2</sub>	22	2	18	336.303	393.337	319.300	335.295	1046.92	1046	711.63	711	350.318
c-5,13,16-Docosatrienoic	Eranthic (ω-6)	C <sub>22:3</sub>	22	3	16	334.287	391.321	317.284	333.279	1040.88	1040	707.60	707	348.303
c-7,10,13,16-Docosatetraenoic	Adrenic (ω-6)	C <sub>22:4</sub>	22	4	14	332.272	389.306	315.269	331.264	1034.83	1034	703.57	703	346.287
c-7,10,13,16,19-DocosaPentaenoic	DPA (ω-3)	Dp	22	5	12	330.256	387.290	313.253	329.248	1028.78	1028	699.54	699	344.272
c-4,7,10,13,16,19-DocosaHexaenoic	DHA (ω-3)	Dh	22	6	10	328.240	385.274	311.237	327.232	1022.74	1022	695.50	695	342.256
Tricosanoic	Tricosylic	C <sub>23:0</sub>	23	0	23	354.350	411.384	337.347	353.342	1101.06	1101	747.72	747	368.365
Tetracosanoic	Lignoceric	Lg	24	0	24	368.365	425.399	351.363	367.358	1143.11	1143	775.75	775	382.381

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			C	U	ECN									
c-15-Tetracosenoic	Nervonic (n-9)	N	24	: 1	22	366.350	423.384	349.347	365.342	1137.06	1136	771.72	771	380.365
c-15,18-Tetracosadienoic	Tetracosadienoic (ω-6)	C <sub>24:2</sub>	24	: 2	20	364.334	421.368	347.331	363.326	1131.02	1130	767.69	767	378.350
c-Tetracosatrienoic	Tetracosatrienyl	C <sub>24:3</sub>	24	: 3	18	362.318	419.353	345.316	361.311	1124.97	1124	763.66	763	376.334
c-Tetracosatetraenoic	Tetracosatetraenyl	C <sub>24:4</sub>	24	: 4	16	360.303	417.337	343.300	359.295	1118.92	1118	759.63	759	374.318
c-Tetracosapentaenoic	Tetracosapentaenyl	C <sub>24:5</sub>	24	: 5	14	358.287	415.321	341.284	357.279	1112.88	1112	755.60	755	372.303
c-6,9,12,15,18,21-Tetracosahexaenoic	Tetracosahexaenyl (ω-3)	C <sub>24:6</sub>	24	: 6	12	356.272	413.306	339.269	355.264	1106.83	1106	751.57	751	370.287
Pentacosanoic	Pentacosyl	C <sub>25:0</sub>	25	: 0	25	382.381	439.415	365.378	381.373	1185.16	1185	803.79	803	396.397
Hexacosanoic	Cerotic	Ce	26	: 0	26	396.397	453.431	379.394	395.389	1227.21	1227	831.82	831	410.412
c-17-Hexacosenoic	Ximinic	Xi	26	: 1	24	394.381	451.415	377.378	393.373	1221.16	1221	827.79	827	408.397
Hexacosadienoic	Hexacosadienyl	C <sub>26:2</sub>	26	: 2	22	392.365	449.399	375.363	391.358	1215.11	1215	823.75	823	406.381
Hexacosatrienoic	Hexacosatrienyl	C <sub>26:3</sub>	26	: 3	20	390.350	447.384	373.347	389.342	1209.06	1208	819.72	819	404.365
Hexacosatetraenoic	Hexacosatetraenyl	C <sub>26:4</sub>	26	: 4	18	388.334	445.368	371.331	387.326	1203.02	1202	815.69	815	402.350
Hexacosapentaenoic	Hexacosapentaenyl	C <sub>26:5</sub>	26	: 5	16	386.318	443.353	369.316	385.311	1196.97	1196	811.66	811	400.334
Hexacosahexaenoic	Hexacosahexaenyl	C <sub>26:6</sub>	26	: 6	14	384.303	441.337	367.300	383.295	1190.92	1190	807.63	807	398.318
Heptacosanoic	Heptacosyl	C <sub>27:0</sub>	27	: 0	27	410.412	467.446	393.410	409.405	1269.25	1269	859.85	859	424.428
Octacosanoic	Montanic	Mo	28	: 0	28	424.428	481.462	407.425	423.420	1311.30	1311	887.88	887	438.444
Octacosenoic	Octacosenyl	C <sub>28:1</sub>	28	: 1	26	422.412	479.446	405.410	421.405	1305.25	1305	883.85	883	436.428
Octacosadienoic	Octacosadienyl	C <sub>28:2</sub>	28	: 2	24	420.397	477.431	403.394	419.389	1299.21	1299	879.82	879	434.412
Nonacosanoic	Nonacosyl	C <sub>29:0</sub>	29	: 0	29	438.444	495.478	421.441	437.436	1353.35	1353	915.91	915	452.459
Triacontanoic	Melissic	C <sub>30:0</sub>	30	: 0	30	452.459	509.493	435.457	451.452	1395.39	1395	943.94	943	466.475
c-21-Triacontenoic	Lumequic	C <sub>30:1</sub>	30	: 1	28	450.444	507.478	433.441	449.436	1389.35	1389	939.91	939	464.459
Henatriacontanoic	Henatriacontyl	C <sub>31:0</sub>	31	: 0	31	466.475	523.509	449.472	465.467	1437.44	1437	971.97	971	480.491
Dotriacontanoic	Lacceroic	C <sub>32:0</sub>	32	: 0	32	480.491	537.525	463.488	479.483	1479.49	1479	1000.00	1000	494.506
Dotriacontenoic	Dotriacontenyl	C <sub>32:1</sub>	32	: 1	30	478.475	535.509	461.472	477.467	1473.44	1473	995.97	995	492.491
Triatriacontanoic	Psyllic	C <sub>33:0</sub>	33	: 0	33	494.506	551.540	477.504	493.498	1521.53	1521	1028.04	1028	508.522
Tetraatriacontanoic	Gheddic	C <sub>34:0</sub>	34	: 0	34	508.522	565.556	491.519	507.514	1563.58	1563	1056.07	1056	522.538
Tetraatriacontenoic	Tetraatriacontenyl	C <sub>34:1</sub>	34	: 1	32	506.506	563.540	489.504	505.498	1557.53	1557	1052.04	1052	520.522
Pentatriacontanoic	Ceroplactic	C <sub>35:0</sub>	35	: 0	35	522.538	579.572	505.535	521.530	1605.63	1605	1084.10	1084	536.553
Hexatriacontanoic	Hexatriacontyl	C <sub>36:0</sub>	36	: 0	36	536.553	593.587	519.550	535.545	1647.68	1647	1112.13	1112	550.569
Hexatriacontenoic	Hexatriacontenyl	C <sub>36:1</sub>	36	: 1	34	534.538	591.572	517.535	533.530	1641.63	1641	1108.10	1108	548.553