

Fatty acid molecular weights.

Factors for conversion between different modes of expression, fatty acids (FA), methyl esters (FAME), butyl esters (FABU) and triacylglycerols (TAG).

C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C01:0	46.027	60.054	102.135	176.130	0.766427	0.450649	1.275556	0.977620	0.574827
C02:0	60.054	74.081	116.162	218.211	0.810653	0.516985	1.211193	0.981858	0.626169
C03:0	74.081	88.108	130.189	260.292	0.840798	0.569027	1.171204	0.984746	0.666446
C04:0	88.108	102.135	144.216	302.373	0.862662	0.610945	1.143948	0.986841	0.698889
C05:0	102.135	116.162	158.243	344.454	0.879246	0.645431	1.124179	0.988430	0.725580
C06:0	116.162	130.189	172.270	386.535	0.892257	0.674302	1.109184	0.989677	0.747925
C07:0	130.189	144.216	186.297	428.616	0.902736	0.698825	1.097420	0.990681	0.766904
C08:0	144.216	158.243	200.324	470.697	0.911358	0.719914	1.087944	0.991507	0.783226
C09:0	158.243	172.270	214.351	512.778	0.918575	0.738242	1.080149	0.992198	0.797412
C10:0	172.270	186.297	228.378	554.859	0.924706	0.754320	1.073623	0.992786	0.809855
C11:0	186.297	200.324	242.405	596.940	0.929978	0.768536	1.068079	0.993291	0.820858
C12:0	200.324	214.351	256.432	639.021	0.934561	0.781197	1.063312	0.993730	0.830657
C13:0	214.351	228.378	270.459	681.102	0.938580	0.792545	1.059169	0.994115	0.839440
C14:0	228.378	242.405	284.486	723.183	0.942134	0.802774	1.055535	0.994456	0.847356
C15:0	242.405	256.432	298.513	765.264	0.945299	0.812042	1.052322	0.994759	0.854529
C16:0	256.432	270.459	312.540	807.345	0.948136	0.820477	1.049460	0.995031	0.861058
C17:0	270.459	284.486	326.567	849.426	0.950694	0.828188	1.046894	0.995276	0.867026
C18:0	284.486	298.513	340.594	891.507	0.953010	0.835264	1.044582	0.995498	0.872502
C19:0	298.513	312.540	354.621	933.588	0.955119	0.841780	1.042487	0.995700	0.877545
C20:0	312.540	326.567	368.648	975.669	0.957047	0.847801	1.040580	0.995884	0.882205
C21:0	326.567	340.594	382.675	1017.750	0.958816	0.853379	1.038837	0.996054	0.886523
C22:0	340.594	354.621	396.702	1059.831	0.960445	0.858564	1.037238	0.996210	0.890535
C23:0	354.621	368.648	410.729	1101.912	0.961950	0.863394	1.035765	0.996354	0.894273
C24:0	368.648	382.675	424.756	1143.993	0.963345	0.867905	1.034404	0.996488	0.897765
C25:0	382.675	396.702	438.783	1186.074	0.964641	0.872128	1.033143	0.996612	0.901033
C26:0	396.702	410.729	452.810	1228.155	0.965849	0.876089	1.031971	0.996728	0.904099
C27:0	410.729	424.756	466.837	1270.236	0.966976	0.879812	1.030879	0.996836	0.906980
C28:0	424.756	438.783	480.864	1312.317	0.968032	0.883318	1.029859	0.996937	0.909694
C29:0	438.783	452.810	494.891	1354.398	0.969022	0.886626	1.028905	0.997032	0.912253
C30:0	452.810	466.837	508.918	1396.479	0.969953	0.889750	1.028010	0.997121	0.914672

Adapted from A.J. Sheppard, Lipid Manual, U.S. Food and Drug Administration, 1992.

Fatty acid molecular weights.

Factors for conversion between different modes of expression, fatty acids (FA), methyl esters (FAME), butyl esters (FABU) and triacylglycerols (TAG).

C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C04:1	86.108	100.135	142.216	296.373	0.859919	0.605473	1.147292	0.986578	0.694655
C05:1	100.135	114.162	156.243	338.454	0.877131	0.640893	1.126659	0.988227	0.722068
C06:1	114.162	128.189	170.270	380.535	0.890576	0.670476	1.111097	0.989515	0.744964
C07:1	128.189	142.216	184.297	422.616	0.901368	0.695557	1.098940	0.990550	0.764375
C08:1	142.216	156.243	198.324	464.697	0.910223	0.717089	1.089181	0.991398	0.781040
C09:1	156.243	170.270	212.351	506.778	0.917619	0.735777	1.081175	0.992107	0.795504
C10:1	170.270	184.297	226.378	548.859	0.923889	0.752149	1.074488	0.992707	0.808175
C11:1	184.297	198.324	240.405	590.940	0.929272	0.766611	1.068818	0.993223	0.819367
C12:1	198.324	212.351	254.432	633.021	0.933944	0.779477	1.063951	0.993671	0.829326
C13:1	212.351	226.378	268.459	675.102	0.938037	0.791000	1.059727	0.994063	0.838243
C14:1	226.378	240.405	282.486	717.183	0.941653	0.801378	1.056026	0.994409	0.846276
C15:1	240.405	254.432	296.513	759.264	0.944869	0.810774	1.052757	0.994718	0.853548
C16:1	254.432	268.459	310.540	801.345	0.947750	0.819321	1.049848	0.994994	0.860163
C17:1	268.459	282.486	324.567	843.426	0.950344	0.827130	1.047244	0.995242	0.866206
C18:1	282.486	296.513	338.594	885.507	0.952693	0.834291	1.044898	0.995467	0.871749
C19:1	296.513	310.540	352.621	927.588	0.954830	0.840883	1.042774	0.995672	0.876851
C20:1	310.540	324.567	366.648	969.669	0.956782	0.846970	1.040842	0.995859	0.881562
C21:1	324.567	338.594	380.675	1011.750	0.958573	0.852609	1.039077	0.996031	0.885926
C22:1	338.594	352.621	394.702	1053.831	0.960221	0.857847	1.037458	0.996189	0.889980
C22:1	352.621	366.648	408.729	1095.912	0.961743	0.862726	1.035968	0.996334	0.893756
C23:1	352.621	366.648	408.729	1095.912	0.961743	0.862726	1.035968	0.996334	0.893756
C24:1	366.648	380.675	422.756	1137.993	0.963152	0.867280	1.034592	0.996469	0.897281
C25:1	380.675	394.702	436.783	1180.074	0.964462	0.871543	1.033317	0.996595	0.900580
C26:1	394.702	408.729	450.810	1222.155	0.965681	0.875540	1.032133	0.996712	0.903673
C27:1	408.729	422.756	464.837	1264.236	0.966820	0.879295	1.031030	0.996821	0.906580
C28:1	422.756	436.783	478.864	1306.317	0.967886	0.882831	1.030001	0.996923	0.909317
C29:1	436.783	450.810	492.891	1348.398	0.968885	0.886166	1.029037	0.997019	0.911897

Adapted from A.J. Sheppard, Lipid Manual, U.S. Food and Drug Administration, 1992.

Fatty acid molecular weights.

Factors for conversion between different modes of expression, fatty acids (FA), methyl esters (FAME), butyl esters (FABU) and triacylglycerols (TAG).

C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C08:2	140.216	154.243	196.324	458.697	0.909059	0.714207	1.090453	0.991286	0.778810
C09:2	154.243	168.270	210.351	500.697	0.916640	0.733265	1.082052	0.991852	0.793431
C10:2	168.270	182.297	224.378	542.778	0.923054	0.749940	1.075212	0.992479	0.806345
C11:2	182.297	196.324	238.405	584.859	0.928552	0.764653	1.069425	0.993017	0.817739
C12:2	196.324	210.351	252.432	626.940	0.933316	0.777730	1.064465	0.993482	0.827867
C13:2	210.351	224.378	266.459	669.021	0.937485	0.789431	1.060166	0.993890	0.836928
C14:2	224.378	238.405	280.486	711.102	0.941163	0.799961	1.056405	0.994249	0.845083
C15:2	238.405	252.432	294.513	753.183	0.944433	0.809489	1.053086	0.994569	0.852462
C16:2	252.432	266.459	308.540	795.264	0.947358	0.818150	1.050136	0.994855	0.859169
C17:2	266.459	280.486	322.567	837.345	0.949990	0.826058	1.047497	0.995112	0.865293
C18:2	280.486	294.513	336.594	879.426	0.952372	0.833307	1.045122	0.995345	0.870907
C19:2	294.513	308.540	350.621	921.507	0.954537	0.839975	1.042973	0.995556	0.876071
C20:2	308.540	322.567	364.648	963.588	0.956514	0.846131	1.041019	0.995750	0.880839
C21:2	322.567	336.594	378.675	1005.669	0.958327	0.851831	1.039235	0.995927	0.885253
C22:2	336.594	350.621	392.702	1047.750	0.959994	0.857123	1.037600	0.996090	0.889351
C23:2	350.621	364.648	406.729	1089.831	0.961533	0.862051	1.036096	0.996240	0.893167
C24:2	364.648	378.675	420.756	1131.912	0.962958	0.866650	1.034707	0.996379	0.896729
C25:2	378.675	392.702	434.783	1173.993	0.964281	0.870952	1.033422	0.996509	0.900060
C26:2	392.702	406.729	448.810	1216.074	0.965513	0.874985	1.032228	0.996629	0.903184
C27:2	406.729	420.756	462.837	1258.155	0.966662	0.878774	1.031117	0.996742	0.906118
C28:2	420.756	434.783	476.864	1300.236	0.967738	0.882340	1.030079	0.996847	0.908880
C29:2	434.783	448.810	490.891	1342.317	0.968746	0.885702	1.029109	0.996945	0.911483

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Factors for conversion between different modes of expression, fatty acids (FA), methyl esters (FAME), butyl esters (FABU) and triacylglycerols (TAG).

C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C08:3	138.216	152.243	166.270	452.697	0.907864	0.831274	1.091762	0.991172	0.907554
C09:3	152.243	166.270	180.297	494.778	0.915637	0.844401	1.083308	0.991917	0.914746
C10:3	166.270	180.297	194.324	536.859	0.922201	0.855633	1.076280	0.992546	0.920900
C11:3	180.297	194.324	208.351	578.940	0.927816	0.865352	1.070345	0.993084	0.926225
C12:3	194.324	208.351	222.378	621.021	0.932676	0.873845	1.065267	0.993549	0.930879
C13:3	208.351	222.378	236.405	663.102	0.936923	0.881331	1.060873	0.993956	0.934980
C14:3	222.378	236.405	250.432	705.183	0.940665	0.887978	1.057034	0.994315	0.938622
C15:3	236.405	250.432	264.459	747.264	0.943989	0.893919	1.053649	0.994633	0.941878
C16:3	250.432	264.459	278.486	789.345	0.946960	0.899262	1.050644	0.994918	0.944805
C17:3	264.459	278.486	292.513	831.426	0.949631	0.904093	1.047958	0.995174	0.947452
C18:3	278.486	292.513	306.540	873.507	0.952047	0.908482	1.045543	0.995405	0.949856
C19:3	292.513	306.540	320.567	915.588	0.954241	0.912486	1.043359	0.995616	0.952051
C20:3	306.540	320.567	334.594	957.669	0.956243	0.916155	1.041375	0.995807	0.954061
C21:3	320.567	334.594	348.621	999.750	0.958078	0.919529	1.039564	0.995983	0.955909
C22:3	334.594	348.621	362.648	1041.831	0.959764	0.922641	1.037906	0.996145	0.957615
C23:3	348.621	362.648	376.675	1083.912	0.961321	0.925522	1.036380	0.996294	0.959193
C24:3	362.648	376.675	390.702	1125.993	0.962761	0.928196	1.034973	0.996432	0.960658
C25:3	376.675	390.702	404.729	1168.074	0.964098	0.930684	1.033671	0.996560	0.962022
C26:3	390.702	404.729	418.756	1210.155	0.965342	0.933006	1.032462	0.996679	0.963294
C27:3	404.729	418.756	432.783	1252.236	0.966503	0.935178	1.031337	0.996790	0.964483
C28:3	418.756	432.783	446.810	1294.317	0.967589	0.937213	1.030287	0.996895	0.965598
C29:3	432.783	446.810	460.837	1336.398	0.968606	0.939124	1.029306	0.996992	0.966645

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C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C11:4	178.297	192.324	206.351	572.940	0.927066	0.864047	1.071134	0.993012	0.925510
C12:4	192.324	206.351	220.378	615.021	0.932024	0.872701	1.065946	0.993487	0.930252
C13:4	206.351	220.378	234.405	657.102	0.936350	0.880318	1.061463	0.993901	0.934425
C14:4	220.378	234.405	248.432	699.183	0.940159	0.887076	1.057551	0.994266	0.938128
C15:4	234.405	248.432	262.459	741.264	0.943538	0.893111	1.054107	0.994590	0.941435
C16:4	248.432	262.459	276.486	783.345	0.946555	0.898534	1.051052	0.994879	0.944406
C17:4	262.459	276.486	290.513	825.426	0.949267	0.903433	1.048324	0.995139	0.947090
C18:4	276.486	290.513	304.540	867.507	0.951716	0.907881	1.045872	0.995374	0.949527
C19:4	290.513	304.540	318.567	909.588	0.953940	0.911937	1.043657	0.995587	0.951750
C20:4	304.540	318.567	332.594	951.669	0.955968	0.915651	1.041646	0.995781	0.953784
C21:4	318.567	332.594	346.621	993.750	0.957825	0.919064	1.039813	0.995959	0.955655
C22:4	332.594	346.621	360.648	1035.831	0.959532	0.922212	1.038134	0.996123	0.957379
C23:4	346.621	360.648	374.675	1077.912	0.961106	0.925124	1.036590	0.996273	0.958975
C24:4	360.648	374.675	388.702	1119.993	0.962562	0.927826	1.035167	0.996413	0.960456
C25:4	374.675	388.702	402.729	1162.074	0.963913	0.930340	1.033851	0.996542	0.961833
C26:4	388.702	402.729	416.756	1204.155	0.965170	0.932685	1.032629	0.996663	0.963118
C27:4	402.729	416.756	430.783	1246.236	0.966342	0.934877	1.031493	0.996775	0.964318
C28:4	416.756	430.783	444.810	1288.317	0.967438	0.936930	1.030433	0.996880	0.965444
C29:4	430.783	444.810	458.837	1330.398	0.968465	0.938858	1.029442	0.996978	0.966500

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C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C16:5	246.432	260.459	302.540	777.345	0.946145	0.814544	1.051467	0.994840	0.856465
C17:5	260.459	274.486	316.567	819.426	0.948897	0.822761	1.048695	0.995104	0.862825
C18:5	274.486	288.513	330.594	861.507	0.951382	0.830281	1.046206	0.995342	0.868646
C19:5	288.513	302.540	344.621	903.588	0.953636	0.837189	1.043960	0.995558	0.873992
C20:5	302.540	316.567	358.648	945.669	0.955690	0.843557	1.041922	0.995754	0.878920
C21:5	316.567	330.594	372.675	987.750	0.957570	0.849445	1.040064	0.995935	0.883478
C22:5	330.594	344.621	386.702	1029.831	0.959297	0.854906	1.038364	0.996100	0.887704
C23:5	344.621	358.648	400.729	1071.912	0.960889	0.859985	1.036803	0.996253	0.891635
C24:5	358.648	372.675	414.756	1113.993	0.962361	0.864720	1.035363	0.996394	0.895300
C25:5	372.675	386.702	428.783	1156.074	0.963727	0.869146	1.034032	0.996524	0.898725
C26:5	386.702	400.729	442.810	1198.155	0.964996	0.873291	1.032798	0.996646	0.901933
C27:5	400.729	414.756	456.837	1240.236	0.966180	0.877182	1.031650	0.996760	0.904944
C28:5	414.756	428.783	470.864	1282.317	0.967286	0.880840	1.030579	0.996866	0.907776
C29:5	428.783	442.810	484.891	1324.398	0.968323	0.884287	1.029579	0.996965	0.910444

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Fatty acid molecular weights.

Factors for conversion between different modes of expression, fatty acids (FA), methyl esters (FAME), butyl esters (FABU) and triacylglycerols (TAG).

C No.:Dbl.Bnd	Molecular weights				Conversion factor				
	FA	FAME	FABU	TAG	FAME -> FA	FABU -> FA	FA -> TAG	FAME ->TAG	FABU ->TAG
C16:6	244.432	258.459	300.540	771.345	0.945728	0.813309	1.051888	0.994800	0.855510
C17:6	258.459	272.486	314.567	813.426	0.948522	0.821634	1.049072	0.995068	0.861953
C18:6	272.486	286.513	328.594	855.507	0.951042	0.829248	1.046546	0.995309	0.867846
C19:6	286.513	300.540	342.621	897.588	0.953327	0.836239	1.044267	0.995528	0.873256
C20:6	300.540	314.567	356.648	939.669	0.955409	0.842680	1.042201	0.995727	0.878241
C21:6	314.567	328.594	370.675	981.750	0.957312	0.848633	1.040319	0.995910	0.882849
C22:6	328.594	342.621	384.702	1023.831	0.959060	0.854152	1.038598	0.996077	0.887120
C23:6	342.621	356.648	398.729	1065.912	0.960670	0.859283	1.037018	0.996232	0.891091
C24:6	356.648	370.675	412.756	1107.993	0.962158	0.864065	1.035562	0.996374	0.894793
C25:6	370.675	384.702	426.783	1150.074	0.963538	0.868533	1.034216	0.996506	0.898250
C26:6	384.702	398.729	440.810	1192.155	0.964821	0.872716	1.032968	0.996629	0.901488
C27:6	398.729	412.756	454.837	1234.236	0.966016	0.876642	1.031809	0.996744	0.904526
C28:6	412.756	426.783	468.864	1276.317	0.967133	0.880332	1.030728	0.996851	0.907383
C29:6	426.783	440.810	482.891	1318.398	0.968179	0.883808	1.029718	0.996951	0.910073

Adapted from A.J. Sheppard, Lipid Manual, U.S. Food and Drug Administration, 1992.