



Established 1838

WELCH, HOLME & CLARK CO., INC.

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Typical Fatty Acid Composition of Various Vegetable Oils

	Almond	Avocado	Castor	Coconut	Corn	Cottonseed	Olive	Peanut	Rice Bran	Safflower	Sesame	Soybean	Sunflower	Refined Palm	Canola
C 8:00 Caprylic				5-9											
C 10:0 Capric				4-10											
C 12:0 Lauric		0.2 MAX		44- 52											
C 14:0 Myristic	1.5 MAX	0.1- 2.1		13-21	1 MAX	0.5- 2.0	0.1- 1.2	<0.2	<1	<1	<0.5	<0.5	<1.0	0.5- 5.9	
C 16:0 Palmitic	3.9	7.5- 25	0.8- 1.8	8-11	8-19	17-29	7-16	6- 15.5	12-18	2-10	7-12	7-12	2-10	32-47	3-6
C 16:1 Palmitoleic	2 MAX	0-8.3			<0.5	<1.5		<1.0			<0.5	<0.5	<1.0		
C 18:0 Stearic	3 MAX	0.6- 1.3	0.8- 2.0	1-4	0.5 4	1-4	1-3	1.3- 6.5	1.3	1-10	3.5-6	2.0 5.5	1-10	2-8	1-4
C 18:1 Oleic	60-78	42-81	3-6	5-8	19-50	13-44	65-85	36-72	40-50	7-42	35-50	19-30	14-65	34-44	55-75
C 18:2 Linoleic	10-30	6- 18.5	3.5- 6.8	2.5 MAX	34-65	40-63	4-15	13-45	29-42	72-81	35-50	48-58	20-75	7-12	15-25
C 18:3 Linolenic	2 MAX	2 MAX			<2.0	0.1- 2.1	<1.5	<2.0	<2.0	<1.5	<1.0	5-9	<1.5		8-22
C 18:1 Ricinoleic			82-95												
C 20:0 Arachidic				0.4 MAX	<1.0	0.5 MAX		1-2.5	<2.5	<0.5	<1.0	<1.0	<1.0		
C 20:1 Gadoleic					<0.5	0.5 MAX		0.5- 2.1		<0.5	<0.5	<1.0	<0.5		
C 20:4 Arachidonic								1-2.5							
C 22:0 Behenic						0.5 MAX		1.5- 4.8			<0.5		<1.0		
C 22:1 Erucic (MAX)															2 MAX
C 24:0 Lignoceric						<0.5		1.0- 2.5					<0.5		
Color Gardner (MAX)	4	4	3	3	5	5	8	4	4	3	4	4	3	4	4
Acid Value (MAX)	2.8	0.25	2	0.25	0.25	0.25	2.8	0.25	0.25	0.25	0.25	0.2	0.25	.02	.02
Iodine Value (Hanus)	95- 105	71-95	83-88	6-11	102- 130	109- 120	79-88	84- 100	99- 108	135- 150	103- 116	120- 143	110- 143	50-55	110- 120
Saponification Value	190- 200	177- 196	176- 182	250- 264	187- 193	190- 198	190- 195	185- 195	181- 189	186- 194	188- 195	180- 200	188- 194	192- 209	186- 198
Specific Gravity@25°C	0.910- 0.915	0.910- 0.916	0.957- 0.961	0.917- 0.922	0.914- 0.921	0.915- 0.921	0.910- 0.915	0.912- 0.920	0.916- 0.921	0.919- 0.924	0.916- 0.921	0.917- 0.921	0.915- 0.920	0.910 0.919	0.910 0.918