



**JARCHEM INNOVATIVE INGREDIENTS**

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# TYPICAL COMPOSITION OF MODERN DAY VEGETABLE BUTTERS & OILS

Oils & Fats	INCI Name	Typical Melting Points (°C)	Typical Saponification Values (mg KOH/g)	Typical Iodine Values (g I <sub>2</sub> /100 g)	SATURATED FATTY ACIDS										UNSATURATED FATTY ACIDS											
					Chain Length & Saturation					C6	C8	C10	C12	C14	C16	C18	C20	C22	C24	C16:1	C18:1	C18:2	C18:3	C20:1	C22:1	C18:10H
					Caproic	Caprylic	Capric	Lauric	Myristic	Palmitic	Stearic	Arachidic	Behenic	Lignoceric	Palmitoleic	Oleic (Omega-9)	Linoleic (Omega-6)	Linolenic	Gadoleic	Erucic	Ricinoleic					
<b>Acai Oil</b>	Euterpe Oleracea Pulp Oil		180-200	70-90							15-25	0-2	tr	tr	0-1	tr	55-70	10-15	0-2	tr						
<b>Andiroba Oil</b>	Carapa Guaianensis Seed Oil		150-210	50-80					tr		20-35	5-12	0-3			1-2	45-55	5-15	0-1	tr						
<b>Apricot Kernel Oil</b>	Prunus Armeniaca (Apricot) Kernel Oil			98-110							3-6	0.5-2				0.5-1	58-74	20-34		0-1						
<b>Argan Oil</b>	Argania Spinosa (Argan) Nut Oil								tr		14-16	4-6	tr			tr	43-50	30-34	tr							
<b>Avocado Oil</b>	Persea Gratissima (Avocado) Oil		177-198	80-95							10-20	0-2				2-10	55-75	9-17	0-2							
<b>Borage Oil</b>	Borago Officinalis Seed Oil			130-150							9-11	3-5					14-20	34-43	18-24	3-5						
<b>Brazil Nut Oil</b>	Bertholletia Excelsa Seed Oil		150-210	70-130					tr		12-16	9-13	0-0.5	tr		0-0.5	30-45	30-40	tr	tr						
<b>Buriti Oil</b>	Mauritia Flexuosa Fruit Oil	5 (CP)	150-210	80-150							15-30	1-3				0-1	70-90	1-2.5	1-3							
<b>Canola Oil</b>	Canola oil	-10 (CP)		100-126							3-5	1.5-2	0.5-1			tr	58-61	21-22	9-11	1-2						
<b>Castor Oil</b>	Ricinus Communis (Castor) Seed Oil	-10 (CP)	175-190	80-90							1-1.5	0-1					2-4	3.5-4.5	0-1			89-90				
<b>Cocoa Butter</b>	Theobroma Cacao (Cocoa) Seed Butter	35	190-200	32-43					tr		24-27	33-34	0-1	tr		0-0.5	34-36	3-3.5	tr							
<b>Coconut Oil</b>	Cocos Nucifera (Coconut) Oil	23-26	245-265	7-13	tr	6-9	6-7	47-51	17-19	8-10	2-3	tr					6-7	1-2								
<b>Copaiba Oil</b>	Copaifera Officinalis (Balsam Oil) resin																									
<b>Corn Oil</b>	Zea Mays (Corn) Oil	-5 (CP)	185-195	110-130							10-12	2	0-0.5				25-28	57-59	1							
<b>Cottonseed Oil</b>	Gossypium Herbaceum (Cotton) Seed Oil	0-10	190-200	110-120					0-1		21-26	2-3	tr			0.5-1	17-18	52-54	tr							
<b>Cupuacu Butter</b>	Theobroma Grandiflorum Seed Butter	25-37	188-198	33-42					tr		5-10	25-40	9-15	1-3	tr	tr	30-50	2-5	0-1	0-1	tr					
<b>Evening Primrose Oil</b>	Oenothera Biennis (Evening Primrose) Oil			140-160							4-10	1-3	tr				5-10	66-75	8-12							
<b>Grape Seed Oil</b>	Vitis vinifera (Grape) Seed Oil		180-200	130-145							6-9	3-6	0-1	tr		0-1	12-25	60-75	0-1	0-0.5						
<b>Illipe Butter</b>	Shorea Stenoptera (Illipe) Seed Butter	35	185-200	30-70							16-17	43-45	2				35-37	0-1								
<b>Kahai Oil</b>	Caryodendron orinocense nut oil		172-180	140-160							5-7	4-5					12-17	65-75	2-5							
<b>Macadamia Nut Oil</b>	Macadamia ternifolia (Macadamia) Seed Oil		190-200	70-80							7-10	2-5	1.5-3			16-23	55-65	1-3		1-3						
<b>Mango Oil</b>	Mangifera Indica (Mango) Seed Oil	15-25	180-200	40-70							7-8	27-28	1-2	0-0.5			51-53	7-8	0-1							
<b>Mango Butter</b>	Mangifera Indica (Mango) Seed Butter	32-35	180-200	35-50							6-7	40-45	1-2	0-0.5			40-50	4-5	0-1							
<b>Marula Oil</b>	Sclerocarya Birrea (Marula) Oil										10-15	4-8					70-5	7-10								
<b>Murumuru Butter</b>	Astrocaryum Murumuru Butter	25-35	240-310	20-25			0-1	33-50	25-35		5-10	2-7	tr				5-15	2-7								
<b>Olive Oil (virgin)</b>	Olea Europaea (Olive) Oil		185-200	75-90							9-10	2-3	tr			0.5	77-80	6-7	0.5-1							
<b>Palm Oil</b>	Elaeis Guineensis (Palm) Oil	34-37	195-210	45-55					1		44-45	4-5	tr			tr	39-40	10	tr							
<b>Palm Kernel Oil</b>	Elaeis Guineensis (Palm) Kernel Oil	27-28	240-255	15-20	tr	3-4	3-4	47-48	16		8-9	2-2.5					15-17	2-3								
<b>Passion Fruit Oil</b>	Passiflora Edulis Seed Oil		150-210	115-150							8-15	2-5	tr	tr		0-1	15-35	50-70	0-1		tr					
<b>Peanut Oil</b>	Arachis Hypogaea (Peanut) Oil	10 (CP)	185-195	85-105							10-11	2	2	2-3	1	tr	42-49	31-38	0.5-1.5							
<b>Rapeseed Oil (high erucic)</b>	Brassica Campestris (Rapeseed) Seed Oil	10 (CP)	170-180	100-115							3-4	1	0.5	0.5	1	tr	16-9	13-17	9-11	7-10	41-49					
<b>Sesame Oil</b>	Sesamum Indicum (Sesame) Seed Oil	10 (CP)	190-200	105-120					tr		8-10	5-6	tr			tr	40-41	40-50	tr							
<b>Shea Olein</b>	Butyrospermum Parkii (Shea) Seed Oil	15	180-190	60-90							4-5	27-28	0-1				56-58	5-10	0-0.5							
<b>Shea Butter</b>	Butyrospermum Parkii (Shea) Butter	30-40	180-190	55-75							3-4	42-45	1-2				45-46	5-8	0-0.5							
<b>Sunflower Oil</b>	Helianthus Annuus (Sunflower) Seed Oil	-7 (CP)	185-195	125-140							6-7	4-5	0.5	0.5		tr	18-25	61-68	1-2	tr						
<b>Sunflower (High Oleic)</b>	Helianthus Annuus (Sunflower) Seed Oil	-10 (CP)	185-195	80-90							3-5	4-5	0-0.5	0-1			76-81	6-13	0-0.5							
<b>Soybean Oil</b>	Glycine Soja (Soybean) Oil	-7 (CP)	190-195	125-140					tr		10-11	4	0-0.5	0-0.5			22-23	54-55	7-8							
<b>Sweet Almond Oil</b>	Prunus Amygdalus Dulcis (Sweet Almond) Oil		190-200	95-105							3-9	1-3				0-2	60-80	20-30	0-2							
<b>Tucuma Butter</b>	Astrocaryum (Tucuma) Seed Butter	27-36	225-250	10-16	0-0.5	2-3	2-2.5	51-52	21-22	3-6	1-5	tr	tr	tr			5-10	4-7								
<b>Ucuuba Butter</b>	Virola Sebifera Nut Oil	30-40	160-250	40 max				9-20	55-80	3-10						0-5	5-15	0-5	0-1							
<b>Key</b>					<b>Molecular Weight</b>	116.2	144.2	172.3	200.3	228.4	256.4	284.5	312.5	240.6	368.6	254.4	282.5	280.5	278.4	310.5	338.6	298.5				
					<b>Acid Value (mg KOH/g)</b>	483.0	389.1	325.7	280.1	245.7	218.8	197.2	179.5	164.7	152.2	220.5	198.6	200.1	201.5	180.7	165.7	188.0				
					<b>Melting Point (°C)</b>	-4.0	16.0	31.6	44.2	54.4	62.9	69.6	75.3	79.1	84.2	0.5	13.4	-5.1	-11.2	24.5	33.5	5.0				
					<b>Boiling Point (C/10mmHg)</b>	99.5	124.0	152.2	166.0	190.8	205.8	225.0	240.0	257.0	272.0		223.0	224.0	224.5		254.5					

**Key**  
**Bold Name**= Available at Jarchem  
 tr = Trace Amount  
 CP = Cloud Point