

Table 12. FATTY ACID PROFILE OF EDIBLE OILS AND FATS

(All values are expressed in % of total methyester of fatty acid; All blank space in the table represent below detectable limit)

Food Code	Oil Name	No. of Regions	Butyric (C4:0)	Caproic (C6:0)	Caprylic (C8:0)	Capric (C10:0)	Lauric (C12:0)	Myristic (C14:0)	Palmitic (C16:0)	Stearic (C18:0)	Arachidic (C20:0)	Behenic (C22:0)	Lignoceric (C24:0)	
			← → %											
			F4D0	F6D0	F8D0	F10D0	F12D0	F14D0	F16D0	F18D0	F20D0	F22D0	F24D0	
T EDIBLE OILS AND FATS														
T001	Coconut oil	6			2.76±0.37	5.18±0.20	49.57±0.81	21.12±0.67	9.26±0.39	2.97±0.23				
T002	Corn oil	1							12.94	2.12	0.68	0.39	0.47	
T003	Cotton seed oil	1						0.91	23.40	2.79	0.42	0.34	0.31	
T004	Gingelly oil	6							9.34±0.57	5.75±0.40	0.67±0.05	0.25±0.04	0.22±0.07	
T005	Groundnut oil	5							10.27±0.72	3.38±0.08	1.39±0.13	2.66±0.32	1.25±0.13	
T006	Mustard oil	6							2.18±0.10	1.17±0.02	0.98±0.02	1.39±0.04		
T007	Palm oil	4							39.79±0.57	4.24±0.09				
T008	Rice bran oil	5						0.29±0.15	19.51±0.89	2.03±0.05	1.03±0.51	0.33±0.04	0.51±0.04	
T009	Safflower oil	3						0.18±0.10	6.24±0.53	2.35±0.16	0.26±0.06	0.17±0.05		
T010	Safflower oil (blended)	4							15.71±0.48	2.28±0.08	0.83±0.33	0.31±0.04	0.40±0.03	
T011	Soyabean oil	6							11.51±0.38	4.08±0.58	0.37±0.02			
T012	Sunflower oil	6							6.43±0.18	3.69±0.07	0.32±0.04	0.66±0.03	0.29±0.04	
T013	Ghee	6	0.22±0.08	0.30±0.13	0.47±0.20	1.87±0.34	2.81±0.38	11.81±0.57	39.13±1.15	13.89±1.17	0.52±0.12			
T014	Vanaspati	6						0.37±0.05	1.19±0.05	53.10±1.55	5.98±0.44	0.81±0.07		

Table 12. Fatty acid profile of edible oils and fats

426

Food Code	Oil Name	No. of Regions	Myristoleic (C14:1)	Palmitoleic (C16:1)	Elaidic (C18:1n9t)	Oleic (C18:1n9)	Eicosenoic (C20:1n9)	Erucic (C22:1n9)	Linoleic (C18:2n6)	α -Linolenic (C18:3n3)	Total Saturated Fatty Acids (TSFA)	Total Mono Unsaturated Fatty Acids (TMUFA)	Total Poly Unsaturated Fatty Acids (TPUFA)
			% ← →										
			F14D1	F16D1	F18D1TN9	F18D1N9	F20D1N9	F22D1N9	F18D2N6	F18D3N3	FASAT	FAMS	FAPU
T EDIBLE OILS AND FATS													
T001	Coconut oil	6				7.24±0.25			1.90±0.14		90.86±0.33	7.24±0.25	1.90±0.14
T002	Corn oil	1		1.70		31.97			48.97	0.76	16.60	33.67	49.74
T003	Cotton seed oil	1		1.84		17.82			51.81	0.35	28.17	19.66	52.16
T004	Gingelly oil	6		0.27±0.09		40.87±0.54	0.27±0.04		41.96±0.87	0.39±0.08	16.25±0.73	41.41±0.62	42.34±0.89
T005	Groundnut oil	5				53.89±1.08			27.17±0.99		18.94±1.26	53.89±1.08	27.17±0.99
T006	Mustard oil	6		0.16±0.04		10.18±0.48	5.45±0.25	51.30±0.96	15.55±0.15	11.64±0.34	5.72±0.09	67.09±0.48	27.19±0.44
T007	Palm oil	4		0.27±0.03		43.26±0.42			11.18±0.28	0.30±0.03	44.98±0.67	43.53±0.40	11.49±0.29
T008	Rice bran oil	5		0.28±0.03		43.84±0.76			31.56±0.65	0.56±0.13	23.76±0.58	44.12±0.74	32.12±0.68
T009	Safflower oil	3		0.24±0.02		13.80±0.62	0.17±0.02		76.58±1.10	0.13±0.03	9.19±0.58	14.04±0.60	76.78±1.15
T010	Safflower oil (blended)	4		0.24±0.04		37.37±1.68			42.09±1.94	0.78±0.23	19.53±0.54	37.61±1.71	42.86±2.16
T011	Soyabean oil	6				24.06±1.75			54.78±1.45	5.20±0.33	15.96±0.37	24.06±1.75	59.98±1.57
T012	Sunflower oil	6				25.96±1.54			62.65±1.56		11.39±0.10	25.96±1.54	62.65±1.56
T013	Ghee	6	0.95±0.17	1.86±0.16	0.44±0.09	23.19±1.46			2.00±0.62	0.55±0.11	71.02±4.13	26.44±1.88	2.54±0.73
T014	Vanaspati	6			4.68±0.92	29.19±1.35			4.69±0.56		61.44±1.60	33.87±1.42	4.69±0.56