




Pouya Faravaran Kamyab Co.
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No.	Chemical Characteristics of date seed oil	Value
Physico chemical properties		
1	Saponification number	191.28±0.50
2	Iodine number (g/100 g)	76.66±0.28
3	Free fatty acids (% oleic acid)	0.59±0.02
4	p-Anisidine value	3.67±0.18
5	Peroxide value (meq O ₂ /Kg)	3.62±0.56
6	Unsaponifiable matter (%)	1.79±0.22
7	Index of refraction	1.456±0.01
8	β-Carotene (mg/kg)	5.51
9	Chlorophyll (mg/kg)	0.10
10	Physical state (20°C)	Liquid
Fatty Acids Composition (%)		
Saturated		
12	C8:0	0.08±0.02
13	C10:0	0.11±0.03
14	C12:0	10.24±0.12
15	C14:0	7.51±0.10
16	C15:0	0.07±0.02
17	C16:0	9.83±0.12
18	C17:0	0.15±0.05
19	C18:0	1.66±0.03
20	C20:0	0.19±0.08
21	C22:0	0.09±0.01
22	C23:0	0.02±0.01
23	C24:0	0.02±0.01
Monounsaturated		
25	C15:1	0.03±0.01
26	C16:1 Δ ⁹	0.07±0.02
27	C16:1 Δ ⁷	0.06±0.01
28	C17:1	0.08±0.02
29	C18:1 Δ ⁹	50.00±0.39
30	C18:1 Δ ¹¹	0.10±0.03
31	C20:1 Δ ¹¹	0.32±0.04
32	C22:1	0.02±0.01
Polyunsaturated		
34	C18:2	19.23±0.29
35	C18:3	0.11±0.03
36	SAFA	29.97±0.60
37	MUFA	50.69±0.53
38	PUFA	19.34±0.32



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39	U:S	2.33
Tocopherol and Phytosterols (mg/100 g)		
41	α -Tocopherol	0.61
42	β -Tocopherol	0.92
43	γ -Tocopherol	10.30
44	δ -Tocopherol	1.03
45	α -Tocotrienol	34.01
46	γ -Tocotrienol	4.63
47	Total	51.54
48	Cholesterol	1.42±0.01
49	Campesterol	29.90±0.12
50	Stigmasterol	3.69±0.03
51	β -Sitosterol	255.63±0.42
52	Δ 5-Avenasterol	29.56±0.41
52	Δ 5,24-Stigmastadienol	9.20±0.09
53	Δ 7-Stigmastenol	2.68±0.01
54	Δ 7-Avenasterol	3.99±0.03
55	Total	336.07


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