

	ORGANIC VIRGIN MACADAMIA NUT OIL SPECIFICATION	Section: All sections
		Issue: A
	Document No: FO-QCD-VO-SP-4.2	Revision: 3.2
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Common name:	Organic Virgin Macadamia Nut Oil
Botanical name:	<i>Macadamia integrifolia/tetraphylla</i>
European INCI name:	<i>Macadamia integrifolia/tetraphylla</i> Seed Oil
CAS n°:	129811-19-4 / 128497-20-1
EINECS n°:	not available
Part of the plant:	Seeds
Description:	Vegetable oil obtained from organically grown Macadamia nuts through physical pressing.
Shelf life:	24 months under good storage practice in a cool dry place away from sunlight, covered with inert gas.
Identification:	Physical characteristics & chemical parameters comply

Physical characteristics & tests		
Physical state		Liquid
Colour		Light yellow, almost clear
Odour		Characteristic for macadamia
Relative density		0.905 – 0.920
Refractive index		1.460 – 1.470
Peroxide value meqO ₂ /kg		< 10
Acidity index (mg KOH/g)		< 10
Iodine value		70 – 80
Saponification value		190 – 200
Unsaponifiable matter		≤ 1.5

Chemical parameters *		
C14:0 Myristic acid		≤ 1.5%
C16:0 Palmitic acid		7.0 – 10.0 %
C16:1 Palmitoleic acid		15.0 – 24.0 %
C18:0 Stearic acid		2.0 – 4.0 %
C18:1 Oleic acid		52.0 – 67.0 %
C18:2 Linoleic acid		1.5 – 4.5 %
C18:3 Linolenic acid		≤ 0.5 %
C20:0 Arachidic acid		1.5 – 3.0 %

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Chemical parameters *		
C20:1 Gondoic acid		1.5 – 3.0 %
C22:0 Behenic acid		≤ 1.0 %
C22:1 Erucic acid		≤ 1.0 %
C24:0 Lignoceric acid		≤ 0.5 %

*based on results obtained by GC norm NF ISO 11024 (Pyrenessences Analyses) or method 2.4.22 (Eurofins BioPharma Product Testing Hamburg GmbH)

30.08.2017