



NHR ORGANIC OILS
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Certificate of Analysis Sheet **Organic Cranberry Seed Oil** *(Vaccinium macrocarpon)*

Cranberry seed oil is the fixed oil expressed from the seeds of the Cranberry, *Vaccinium macrocarpon*, Ericaceae.

Product name	Organic cranberry seed oil, cold pressed
Batch number:	150426-5
Latin name	<i>Vaccinium macrocarpon</i> , Ericaceae
INCI (EU)	VACCINIUM MACROCARPON SEED OIL
CAS Registry Number (EU)	91770-88-6
EINECS/ ELINCS	294-875-8
Customs tariff number	1515 90 59
Main countries of origin	Canada/USA

Physicochemical characteristics			
Parameter	Method	Interval values	Value & unit
Density	20 °C, DGF C-1V 2d, densimetry	0,912 – 0,928	0,920 g/ml
Refractive index	20 °C, DGF C-IV 5, refractometry	1,4730 - 1,4870	1,480
Acid value	DGF C-V 2, titration	-	≤ 5,0 mg KOH/g (KOH = NaOH)
Free fatty acids (FFA)	Calculated in oleic acid (DGF C-V 2)	-	≤ 2,51 %
Saponification value	DIN EN ISO 3657, calaculation	175 – 205	190 mg KOH/g (KOH = NaOH)
Iodine value	DGF-C-V 11d, Wijs	155 – 185	170 g I ₂ /100g Semi-drying
Peroxide value	§ 64 LFGB L 13.00-40, potentiometry	-	≤ 15,0 meq O ₂ /kg oil
Solvent	-	-	None, free of alcohol (mechanical pressing)

Composition of the main fatty acids According to DGF C-VI 10a (GC-FID)				
Name, molecular structure	Identifiers	Symbol ¹	Interval values (%)	%
Palmitic acid	Saturated	16:0	3 – 10	5,5
Stearic acid	Saturated	18:0	≤ 6	2,0
Oleic acid (9-cis-octadecenoic acid)	Omega-9, mono unsaturated	18:1	15 – 32	25,0
Linoleic acid (9-cis,12-cis-octadecadienoic acid)	Omega-6, poly unsaturated	18:2	30 – 44	37,5
Alpha-Linolenic acid (all-cis-9,12,15-octadecatrienoic acid)	Omega-3, poly unsaturated (ALA)	18:3	21 – 35	27,0

¹ Number of carbon atoms and of double bonds.

Further ingredients (Unsaponifiable fraction)	mg/kg(ppm)
Carotenoids	
Sterols	
Tocopherols	
Vitamin E, active	

¹ The oil is free of additives. The above Ingredients are naturally present in the oil.

The given values are to be considered as approximate average values, which are based on scientific references and/or analysis.