



Specification

Concerning Product:	
Article number	863616CL2
Trade name / designation / denomination	Vitamin K2 2% (Menaquinon)
CAS number	863-61-6
Other names / synonyms	•2-methyl-3-[(2E,6E,10E)-3,7,11,15-tetramethyl-2,6,10,14-hexadecatetraen-1-yl]-1,4-naphthalenedione; •MK-4; •Menaquinone 4; •Menatetrenone; •Vitamin K2;
Molecular weight [g / mol]	444.7
Formula	C ₃₁ H ₄₀ O ₂

Parameter	Specification	Unit
Organoleptic test		
Appearance	pale yellow or white crystalline powder	
Physical parameter		
Loss on drying	≤ 10	%
pH value	5,5 – 8,0	
Reducing substances	Sugars: ≤ 0,2	%
Identity		
Assay	Menaquinone-4 (HPLC): ≥ 2,0	%
Identification	yellow brown precipitate	
Impurities		
Residue on ignition	≤ 0,1	%
Heavy Metals (as Pb)	≤ 10	ppm
Pesticides	neg.	
Impurity	Fatty Acid: neg.	
Impurity	Starch: neg.	
Elemental Impurities		
Arsenic (As)	≤ 2	ppm
Nutritional data		
Carbohydrates	(Pharm. excipient) ≥ 90,0	g/100g
Microbiological data		
Aerobic microorganisms	≤ 1000	CFU/g
Escherichia Coli.	neg.	
Salmonella	neg.	
Yeast and Mould	≤ 100	CFU/g

Supplemental information:

Storage conditions: Storage temperature: 0 - 8°C. Protect from light and moisture.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 29. Jul. 2019

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