



Specification

Concerning Product:	
Article number	2124574V01
Trade name / designation / denomination	Vitamin K2 MK7 1% in Olivenöl, ferment.
CAS number	2124-57-4
Other names / synonyms	•2methyl-3-all-trans-farnesyl digeranyl-1,4-naphthoquinone; •Menaquinone-7; •Vitamin K2 MK-7;
EC number	
Molecular weight [g / mol]	649,01
Formula	C ₄₆ H ₆₄ O ₂

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance	visual	Light yellow to yellow oily	
Identity			
Assay	HPLC	Menaquinone-7 ≥ 10000	ppm
Identification	USP	HPLC: The principal peak in the chromatogram obtained with the test solution is similar in retention time to that of reference solution	
Identification	USP	TLC: Under visible light and short-wavelength UV light, the spots from the sample solution correspond in color (light yellow), shape, and Rf value to those from the standard solution. After applying the spray reagent, the spots from the sample solution, under white light, correspond in color (dark blue), shape, and Rf value to those from the standard solution.	
Impurities			
Impurity	HPLC	Cis-menaquinone-7 ≤ 2,0	%
Impurity	HPLC	Menaquinone-6 ≤ 1000	ppm
Elemental Impurities			
Arsenic (As)	ICP-MS	≤ 2,0	ppm
Cadmium (Cd)	ICP-MS	≤ 1,0	ppm
Mercury (Hg)	ICP-MS	≤ 0,1	ppm
Lead (Pb)	ICP-MS	≤ 3,0	ppm
Microbiological data			
Escherichia Coli.	USP 2022	absent	CFU/g
Salmonella	USP 2022	absent	
Staphylococcus Aureus	USP 2022	absent	
Total Plate Count	USP 2021	Total bacteria count: ≤ 1000	CFU/g
Yeast and Mould	USP 2021	Total Yeasts and Moulds Count: ≤ 100	CFU/g

Supplemental information:

Shelf life: 2 years from date of manufacture

Storage conditions: Preserve in airtight containers, protected from light and store at cool and dry place

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 02. Dec. 2025

LF-Basis: (2025-11-27)

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