



## Specification

Concerning Product:	
Article number	2124574PL1
Trade name / designation / denomination	Vitamin K2-7 1% +MCC
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 <sub>46</sub> H <sub>64</sub> O <sub>2</sub>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	off-light to light yellow powder	
Flavor and taste	tasteless	
Odour	odourless	
<b>Physical parameter</b>		
Loss on drying	≤ 5,0	%
Solubility	in methanol: slightly soluble	
Solubility	in n-hexane and ethanol: soluble	
Solubility	in water: insoluble	
<b>Identity</b>		
Assay	Vitamin K2 (MK-7) ≥ 1,0	%
Identification	by HPLC retention time	
<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 10	ppm
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 1	ppm
Cadmium (Cd)	≤ 1	ppm
Mercury (Hg)	≤ 0,1	ppm
Lead (Pb)	≤ 3	ppm

<b>Microbiological data</b>		
Escherichia Coli.	Negative	
Salmonella	Negative	
Staphylococcus Aureus	Negative	
Total Plate Count	≤ 10000	CFU/g
Yeast and Mould	≤ 200	CFU/g
<b>Particle size distribution</b>		
Particles	< 100 mesh: ≤ 15	%
Particles	< 20 mesh: ≤ 100	%
Particles	< 40 mesh: ≤ 85	%

**Supplemental information:**

**Shelf life:** 2 years

**Derivation:**

Carrier: MCC (microcrystalline cellulose)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 29. Feb. 2024

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