Chemische Werke Hommel GmbH & Co. KG

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Specification

Concerning Product:	
Article number	68199CLR
Trade name / designation / denomination	Vitamin B12, rein (Cyanocobalmin)
CAS number	68-19-9
Other names / synonyms	•Vitamin B12; •cyanocobalamin;
EC number	200-680-0
Customs tariff number / CN code / TARIC	29362600
Molecular weight [g / mol]	1355.37 g/mol
Formula	$C_{63}H_{88}CoN_{14}O_{14}P$

Parameter	Specification	Unit
Organoleptic test		
Appearance	Dark red crystals or amorphous or crystalline red powder	
Physical parameter		
Loss on drying	≤ 10	%
Identity		
Assay	97,0 – 102,0	%
Identification	A: UV: The absorption spectrum exhibits maxima at 278±1nm,361±1nm,and 550 ±2nm.278±1nm,361±1nm,550±2nm A361 nm/A278nm :1.70~1.90 A361 nm/A550nm :3.15~3.40	
Identification	B: Cobalt: Meets USP requirements	
Identification	C: HPLC: The retention time of the major-peak of the sample solution corresponds to that of the standard solution.	
Impurities		
Related substances	Total impurities ≤3.0% 7β ,8β - Lactocyanocobalamin ≤1.0% 34-Methylcyanocobalamin ≤2.0% 8-Epi-cyanocobalamin ≤1.0% Any othter unidentified impurity and 50-Carboxycyanocobalamin ≤0.5%	% [w/w]
Residual Solvents		
Acetone	≤ 5000	ppm

Microbiological data		
Aerobic microorganisms	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g

Supplemental information:

Shelf life: 5 years

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG
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Waltrop, 14. Sep. 2022

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