



Spezifikation

Produktbezug:	
Produktnummer	68199CLR
Handelsname / Bezeichnung	Vitamin B12, rein (Cyanocobalmin)
CAS Nummer	68-19-9
Andere Bezeichnungen / Synonyme	•Cyanocobalamin; •Vitamin B12; •cyanocobalamin;
EG Nummer	200-680-0
Zolltarifnummer / CN-Code	29362600
Molekulargewicht [g/mol]	1355.37 g/mol
Formel	C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P

Parameter	Spezifikation	Einheit
Sensorische Prüfung		
Aussehen	Dunkelrote Kristalle oder amorphes oder kristallines rotes Pulver	
Physikalische Parameter		
Trocknungsverlust	≤ 10	%
Identifikation		
Gehalt	97,0 – 102,0	%
Identifizierung	A. UV: Das Absorptionsspektrum zeigt Maxima bei 278 ± 1 nm, 361 ± 1 nm und 550 ± 2 nm. 278 ± 1 nm, 361 ± 1 nm, 550 ± 2 nm A361nm/A278nm: 1,70~1,90 A361nm/A550nm: 3,15~3,40	
Identifizierung	B: Kobalt: Erfüllt die USP-Anforderungen	
Identifizierung	C: HPLC: Die Retentionszeit des Hauptpeaks der Probenlösung entspricht der der Standardlösung.	
Verunreinigungen		
Verwandte Substanzen	Gesamtverunreinigungen ≤3.0% 7β, 8β - Lactocyanocobalamin ≤ 1,0 % 34-Methylcyanocobalamin ≤2,0 % 8-Epi-cyanocobalamin ≤1,0 % Jede andere nicht identifizierte Verunreinigung und 50-Carboxycyanocobalamin ≤0,5 %	% [w/w]
Restlösemittel		
Aceton	≤ 5000	ppm

Mikrobiologische Daten		
Aerobe Mikroorganismen	≤ 1000	CFU/g
Schimmel und Hefe	≤ 100	CFU/g

Zusätzliche Angaben:

Mindesthaltbarkeit: 5 Jahre

regionaler Ursprung: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Sep. 2022

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