

Item Number	H1129
Item	Hydroxocobalamin, USP
CAS Number	13422-51-0
Molecular Formula	C ₆₂ H ₈₉ CoN ₁₃ O ₁₅ P
Molecular Weight	1346.36
MDL Number	
Synonyms	Co ²⁺ -[⁺ -(5,6-Dimethylbenzimidazolyl)]-Co ³⁺ -hydroxocobamide

Test	Specification	
	Min	Max
APPEARANCE		
IDENTIFICATION (A) FTIR	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION (B)	POSITIVE FOR COBALT	
IDENTIFICATION (C)	RETENTION TIME CORRESPONDS TO STANDARD	
ASSAY (ANHYDROUS, SOLVENT-FREE BASIS)	95.0	102.0 %
pH (2 in 100 SOLUTION)	8.0	10.0
WATER DETERMINATION	14.0	18.0 %
RELATED COMPOUNDS:		
B6-Hydroxymethyl Derivative		0.50 %
B5-Hydroxymethyl Derivative		0.40 %
IMPURITY (@ RELATIVE RETENTION TIME = 0.70		0.30 %
IMPURITY (@ RELATIVE RETENTION TIME = 0.75		0.40 %
IMPURITY (@ RELATIVE RETENTION TIME = 0.82		0.40 %
IMPURITY (@ RELATIVE RETENTION TIME = 0.93		1.1 %
C8 Epimer		1.0 %
IMPURITY (@ RELATIVE RETENTION TIME = 1.37-1.51		0.50 %
CYANOCOBALAMIN		1.0 %
ANY OTHER IMPURITY		0.20 %
Sum of all Impurities		4.0 %
ACETONE		0.5 %
ELEMENTAL IMPURITIES:		
ARSENIC (As)	AS REPORTED	
EXPIRATION DATE		

Test	Specification	
	Min	Max
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
RESIDUAL SOLVENTS	AS REPORTED	

Spectrum Chemical Mfg Corp

<i>Corporate Headquarters:</i>	<i>West Coast Facility:</i>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000