



Specification

Concerning Product:	
Article number	83885CL
Trade name / designation / denomination	Vitamin B2 (Riboflavin), Food
CAS number	83-88-5
Other names / synonyms	•Lactoflavine; •Vitamin B2; •riboflavin;
EC number	201-507-1
Customs tariff number / CN code / TARIC	29362300
Molecular weight [g / mol]	376,37
Formula	C17H20N4O6

Parameter	Specification	Unit
Organoleptic test		
Colour	yellow to orange	
Physical parameter		
Form	crystalline powder	
Loss on drying	≤ 1,5	%
Specific Optical Rotation	-115 – -135	°
Acidic reacting substances	Check the color of the test solution after adding the respective solutions: complies	
Identity		
Assay	(o.d.b.)* [EP/BP]: 97,0 – 103,0	
Assay	(o.d.b.)* [USP]: 98,0 – 102,0	%
Identification	complies	
Infrared absorption spectrometry	A373nm/A267nm: 0,31 – 0,33	
Infrared absorption spectrometry	A444nm/A267nm 0,36 – 0,39	
Impurities		
Heavy Metals (as Pb)	≤ 10	ppm
Impurity	Lumiflavin [BP/EP]: Intensity compared with Reference sol.(C): ≤ 0,025	%
Impurity	Lumiflavin [USP]: Absorbance of the filtrate at 440nm: ≤ 0,025	%
Organic volatile impurities		
Org. volat. Imp. Total	comforms to USP requirements Method IV <467>	
Particle size distribution		
Particles	< 60 mesh: ≤ 100	%

Annotation:

* o.d.b. = on dried basis / auf getrockneter Basis

Supplemental information:

Shelf life: 2 years

Complies with monographie: EP5, BP2008, USP38

Chemische Werke Hommel GmbH & Co.KG

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Waltrip, 21. Mar. 2022

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