



## Specification

Concerning Product:	
Article number	67038V01
Trade name / designation / denomination	Vitamin B1 HCL (Thiamin HCl), EP/BP/USP
CAS number	67-03-8
Other names / synonyms	•Aneurine hydrochloride; •Vitamin B1 HCl; •thiamine hydrochloride;
EC number	200-641-8
Customs tariff number / CN code / TARIC	29362200
Molecular weight [g / mol]	337,3 g/mol
Formula	C <sub>12</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>4</sub> OS

Parameter	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance of solution	BP2023	clear, no more than reference solution Y7 or GY7	
Appearance		white crystals or almost white crystalline powder	
<b>Physical parameter</b>			
Water content	USP2022	≤ 5,0	%
pH value	USP2022	2,7 – 3,3	
<b>Identity</b>			
Absorbance of Solution	USP2022	≤ 0,025	
Assay	BP2023	98,5 – 101,0	%
Assay	USP2022	Chromatographic: ≤ 1,0	%
Identification	USP2022	(1) should be positive reaction	
Identification	FCC11	(2) Consistent with the reference IR spectra	
<b>Impurities</b>			
Residue on ignition	USP2022	≤ 0,1	%
Heavy Metals (as Pb)	ICP/MS	≤ 20	ppm
Nitrates	USP2022	No brown ring is produced at the junction of the two layers	
Sulphates (SO <sub>4</sub> )	USP2022	≤ 300	ppm
Impurity	BP2023	A: ≤ 0,15	%
Impurity	BP2023	Any impurity ≤ 0,1	%
Impurity	BP2023	B: ≤ 0,3	%
Impurity	BP2023	C: ≤ 0,15	%
Impurity	BP2023	Total impurities ≤ 0,5	%

<b>Residual Solvents</b>			
Ethanol	USP2022	≤ 0,5	
<b>Elemental Impurities</b>			
Arsenic (As)	ICP/MS	≤ 1,0	ppm
Cadmium (Cd)	ICP/MS	≤ 0,3	ppm
Mercury (Hg)	ICP/MS	≤ 0,1	ppm
Lead (Pb)	ICP/MS	≤ 0,5	ppm
<b>Organic volatile impurities</b>			
Methanol	USP2022	≤ 0,3	mg/kg
<b>Microbiological data</b>			
Escherichia Coli.	CH.P.2020	neg. in 10g	
Salmonella	CH.P.2020	neg. in 10 g	
Staphylococcus Aureus	CH.P.2020	neg. in 10g	
Total Plate Count	CH.P.2020	≤ 1000	CFU/g
Yeast and Mould	CH.P.2020	≤ 100	CFU/g

**Supplemental information:**

**Shelf life:** 3 years

**Complies with monographie:** EP11.0, USP2022, BP2023, FCC11

**Regional origin:** CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 11. Jul. 2025

LF-Basis: (AZ-2025-01-27)

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