



## Specification

Concerning Product:	
Article number	59438CLU
Trade name / designation / denomination	Vitamin B1 (Thiamin)
CAS number	59-43-8
Other names / synonyms	â€¢2-[3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-thiazol-3-iumyl]ethanol; â€¢Aneurin; â€¢Thiamin; â€¢Vitamin B1; â€¢thiamine;
EC number	200-425-3
Customs tariff number / CN code / TARIC	29362200
Molecular weight [g / mol]	265.35458
Formula	C <sub>12</sub> H <sub>17</sub> N <sub>4</sub> OS <sup>+</sup>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	white or almost white crystalline powder	
<b>Physical parameter</b>		
Loss on drying	≤ 5	%
pH value	2,7 â€” 3,4	
Solubility	in Water: soluble	
<b>Identity</b>		
Assay	99 â€” 102	%
Identification	A: IR absorption: complies	
Identification	B: Test of chloride: pass	
Identification	C: Appearance of solution: pass	
<b>Impurities</b>		
Residue on ignition	≤ 0,1	%
Nitrates	complies	
Related substances	≤ 1	% [w/w]
<b>Residual Solvents</b>		
Residual solvents	Ethanol: ≤ 0,5	%
Residual solvents	Methanol: ≤ 0,3	%
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 2	ppm
Lead (Pb)	≤ 2	ppm
<b>Microbiological data</b>		
Escherichia Coli.	Negative	CFU/g
Salmonella	Negative	
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g

### Supplemental information:

**Shelf life:** 2 years

**Packing:** 25 kg Carton

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. Aug. 2019

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