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Specification

Concerning Product:	
Article number	532434TE
Trade name / designation / denomination	Vitamin B1 Mononitrat (Thiamin Mononitrat)
CAS number	532-43-4
Other names / synonyms	•2-[3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-thiazol-3-iumyl]ethanol nitrate; •Thiamine mononitrate; •Vitamin B1 mononitrate; •thiamine nitrate;
EC number	208-537-4
Customs tariff number / CN code / TARIC	29362200
Molecular weight [g / mol]	327.35948
Formula	$C_{12}H_{17}N_5O_4S$

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution		Clear, not more intensely coloured than reference solution Y7	
Appearance		White or almost white, crystalline powder or small colourless crystals	
Physical parameter			
Loss on drying		(105 °C) ≤ 1,0	%
pH value		6,8 – 7,6	
Solubility		Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96%), practically insoluble in heptane	
Identity			
Assay		98 – 101	%
Identification	A,B,C	complies	
Impurities			
Heavy Metals (as Pb)		≤ 20	ppm
Sulphated ash		≤ 0,1	%
Related substances		each unspecified impurity: ≤ 0,10	% [w/w]
Related substances		Impurity A: ≤ 0,15	% [w/w]
Related substances		Impurity B: ≤ 0,6	% [w/w]
Related substances		Impurity C: ≤ 0,4	% [w/w]
Related substances		total ≤ 1,0	% [w/w]

Supplemental information:

Shelf life: 3 years from date of production in the unopened original container under recommended storage conditions/

Storage conditions: Keep in tightly closed original sealed packing in cool, clean and dry place, away from direct sunlight and water

Complies with monographie: EP

Packing: 25 kg paper drum with PE-liner

Chemische Werke Hommel GmbH & Co.KG
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Waltrop, 16. Aug. 2022

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