



## Specification

Concerning Product:	
Article number	532434ALR
Trade name / designation / denomination	Thiamin mononitrat (Vitamin B1 mono)
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 <sub>12</sub> H <sub>17</sub> N <sub>5</sub> O <sub>4</sub> S

Parameter	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance of solution		The solution is clear and not more intensely coloured than reference solution Y7	
Appearance		White or almost white crystalline powder or colorless crystals	
<b>Physical parameter</b>			
Loss on drying	NMT	≤ 5,0	%
pH value		2,7 – 3,4	
Solubility		Freely soluble in water, soluble in glycerol, slightly soluble in alcohol, practically insoluble in heptane	
<b>Identity</b>			
Assay		on anhydrous basis 98,0 – 102,0	%
Identification		Meet the Requirement	
Melting Point (identity)		about 248, with decomposition	°C
<b>Impurities</b>			
Residue on ignition	NMT	≤ 0,2	%
Nitrates		No brown ring is produced at the junction of the two layers	
Sulphates (SO <sub>4</sub> )	NMT	≤ 300	ppm
Related substances		Impurity A: ≤ 0,15	%
Related substances		Impurity B: ≤ 0,3	%
Related substances		Impurity C: ≤ 0,15	%
Related substances	NMT	Total impurities ≤ 0,5	%
Related substances	NMT	Unspecified impurities (for each impurity) ≤ 0,1	%
<b>Elemental Impurities</b>			
Arsenic (As)		≤ 2,0	mg/kg
Lead (Pb)		≤ 2,0	mg/kg

### Supplemental information:

**Shelf life:** 36 month

**Storage conditions:** Packed in paper-drums and two plastic-bags inside, 25kg/Drum.  
 Keep in cool & dry place. Stay away from strong light and heat.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 13. May. 2020

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