


## Specification

Concerning Product:	
Article number	58082TEC
Trade name / designation / denomination	Coffein wasserfrei, CN
CAS number	58-08-2
Other names / synonyms	•1,3,7-trimethylpurine-2,6-dione; •Caffeine Anhydrous ; •caffeine;
EC number	200-362-1
EC index number	613-086-00-5
Customs tariff number / CN code / TARIC	29393000
Molecular weight [g / mol]	194.1906
Formula	C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>
<b>Warning</b>  -/-, ,	
Harmful if swallowed. Harmful if inhaled. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance of solution	clear and colourless	
Appearance	white or almost white crystalline powder	
<b>Physical parameter</b>		
Acidity/Alkalinity	not more than 0.2 mL of 0.01 M sodium Hydroxide is required to change the colour of the indicator to blue	
Loss on drying	≤ 0,5	%
Melting range	234 – 239	°C
Solubility	Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96 per cent). It dissolves in concentrated solutions of alkali benzoates or salicylates	
<b>Identity</b>		
Assay	98,5 – 101,5	%
Infrared absorption spectrometry	complies	

<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 20	ppm
Sulphated ash	≤ 0,1	%
Sulphates (SO <sub>4</sub> )	≤ 500	ppm
Related substances	Total impurities ≤ 0,1	% [w/w]
Related substances	Unspecified impurities ≤ 0,1	% [w/w]

**Supplemental information:**

**Shelf life:** 4 years

**Derivation:** synthetic

**Storage conditions:** Keep in tightly closed original packing, at ambient temperature, in clean and dry place, away from direct sunlight and water

**Complies with monographie:** EP

**Regional origin:** CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 02. Feb. 2022

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