



Specification

Concerning Product:	
Article number	58082TE
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 ₈ H ₁₀ N ₄ O ₂
Warning  -/-, ,	
Harmful if swallowed. Harmful if inhaled. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	clear and colorless	
Appearance	white crystalline powder	
Physical parameter		
Acidity/Alkalinity	(0.01 mol/L NaOH) ≤ 0.2	ml
Loss on drying	≤ 0.5	% [w/w]
Melting range	234 – 239	°C
Identity		
Assay	98.5 – 101.5	% [w/w]
Assay	HPLC: 98.5 – 101.0	% [w/w]
Identification	HPLC: conforms to the chromatography of the standard preparation	
Identification	IR: conforms to reference spectrum	

Impurities		
Residue on ignition	≤ 0.1	% [w/w]
Heavy Metals (as Pb)	≤ 0.001	% [w/w]
Sulphated ash	≤ 0.1	% [w/w]
Sulphates (SO ₄)	≤ 500	ppm
Impurity	Chloroform: ≤ 60	%
Impurity	single impurity (HPLC): ≤ 0.1	% [w/w]
Impurity	total impurities (HPLC): ≤ 0.1	% [w/w]

Supplemental information:

Shelf life: 4 years

Complies with monographie: BP2019/EP9.0/USP41/R1-CEP2003-027-Rev03

Packing: 25-kg cardboard drum with PE liner bag

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 03. Jun. 2020

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