




Specification

Concerning Product:	
Article number	58082CPE
Trade name / designation / denomination	Koffein, wasserfrei EP
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. 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
Organoleptic test		
Appearance of solution	clear and colourless	
Colour	white to off-white	
Physical parameter		
Acidity/Alkalinity	(0,01 M NaOH): indikator gets blue $\geq 0,2$	
Form	crystalline powder	
Loss on drying	$\leq 0,5$	
Melting range	234,0 – 239,0	°C
Solubility	in boiling water: soluble	
Solubility	in concentrated solution of alkali benzonates or salicylates: soluble	
Solubility	in ethanol: slightly soluble	
Solubility	in water: sparingly soluble	

Identity		
Assay	(o.d.b.)* 98,5 – 101,5	%
Impurities		
Residue on ignition	≤ 0,1	
Sulphated ash	≤ 0,1	
Sulphates (SO ₄)	≤ 500	ppm
Impurity	≤ 0,1	%
Impurity	≤ 0,1	%
Impurity	A: ≤ 0,1	%
Impurity	C: ≤ 0,1	%
Impurity	D: ≤ 0,1	%
Impurity	F: ≤ 0,1	%
Microbiological data		
Coliform bacteria	neg.	
Escherichia Coli.	neg.	
Pseudomonas aeruginosa	neg.	
Salmonella	neg.	
Staphylococcus Aureus	neg.	
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g

Annotation:

* o.d.b.: on dried basis / auf trockener Basis

Supplemental information:

Complies with monographie: Ph.Eur.

Regional origin: IND

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 26. Oct. 2020

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