



Specification

Concerning Product:	
Article number	58617SPG
Trade name / designation / denomination	Adenosin, CN GMP
CAS number	58-61-7
Other names / synonyms	•2-(6-aminopurin-9-yl)-5-(hydroxymethyl)oxolane-3,4-diol; •9-beta-D-ribofuranosyladenine; •adenosine;
EC number	200-389-9
Customs tariff number / CN code / TARIC	29349990
Molecular weight [g / mol]	267.24132
Formula	C ₁₀ H ₁₃ N ₅ O ₄

Parameter	Test Method	Specification	Unit
Physical parameter			
Acidity/Alkalinity		Meets the requirements	
Form		White crystalline powder	
Loss on drying	(w/w)	≤ 0,5	%
Specific Optical Rotation	(w/w)	68 – 72	°
Solubility		Slightly soluble in water, soluble in hot water	
Identity			
Assay	(contains C ₁₀ H ₁₃ N ₅ O ₄)	99,0 – 101,0	%
Assay	Adenine	(area normalization) ≤ 0,2	%
Assay	Uridine	(area normalization) ≤ 0,1	%
Assay	Inosine	(area normalization) ≤ 0,1	%
Assay	Guanosine	(area normalization) ≤ 0,1	%
Identification		IR absorption spectrum accord with the reference	
Melting Point (identity)		233 – 238	°C
Impurities			
Ammonium	(w/w)	≤ 0.0004	%
Residue on ignition	(w/w)	≤ 0,1	%
Heavy Metals (as Pb)	(w/w)	≤ 10	ppm
Sulphates (SO ₄)	(w/w)	≤ 0,02	%
Impurity		(area normalization) ≤ 0,5	%
Elemental Impurities			
Chlorides (Cl)	(w/w)	≤ 0.007	%

Chemische Werke Hommel GmbH & Co.KG

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Waltróp, 18. Aug. 2020

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