



Specification

Concerning Product:	
Article number	20800
Trade name / designation / denomination	Aspartam, E951
CAS number	22839-47-0
Other names / synonyms	aspartame Aspartam
EC number	245-261-3
Customs tariff number / CN code / TARIC	29242998
Molecular weight [g / mol]	294.30312
Formula	C ₁₄ H ₁₈ N ₂ O ₅

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance		white crystalline powder	
Physical parameter			
Loss on drying		≤ 4,5	%
pH value		4,5 - 6,0	
Specific Optical Rotation	[α] _D ²⁰	(@ 20°C) + 14,5 - + 16,5	°
Solubility		in Ethanol: sparingly soluble	
Solubility		in water: sparingly soluble	
Transmittance		≥ 95,0	%
Identity			
Assay	Titrimetric	(dry) 98,0 - 102,0	%
Impurities			
Residue on ignition		≤ 0,2	%
Heavy Metals (as Pb)		≤ 10	ppm
Impurity		Diketopiperazine (5-Benzy1-3, 6-Dioxo-2-Piperazineacetic Acid): ≤ 1,5	%
Related substances		≤ 2,0	% [w/w]
Elemental Impurities			
Arsenic (As)		≤ 3	ppm
Lead (Pb)		≤ 1	ppm
Organic volatile impurities			

Org. volat. Imp. Total	USP	conform	%
Microbiological data			
Escherichia Coli.		≤ 0	CFU/g
Salmonella		≤ 0	CFU/g
Total Plate Count		≤ 100	CFU/g
Yeast and Mould		≤ 100	CFU/g
Particle size distribution			
Particles		< 100 mesh ≥ 80	%

Regulatory information:

Allergens statement: Possible allergenic components are:

- artificial sweeteners
- Phenylalanine (as part of aspartame molecule)

BSE/TSE statement: Product does not contain ingredients or is produced by raw materials of animal origin.

GMO statement: Product does not contain ingredients or is produced by raw materials containing GMOs.

Supplemental information:

Released by manufacturer: 2016-06-17

Derivation: synthetic

Storage conditions: Store under dry and cool condition, and keep product air-tight.

Complies with monographie: FCC IX/USP 37/E951

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. Jul. 2018

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