



Specification

Concerning Product:	
Article number	22839470SLY
Trade name / designation / denomination	Aspartam, E951
CAS number	22839-47-0
Other names / synonyms	•3-amino-4-[(1-methoxy-1-oxo-3-phenylpropan-2-yl)amino]-4-oxobutanoic acid; •3-amino-N-(?-carbomethoxy-phenethyl)-succinamic acid-N-methyl ester; •3-amino-N-(α-carbomethoxy-phenethyl)-succinamic acid-N-methyl ester; •N-L-?Aspartyl-L-Phenylalanine-1-methyl ester; (3S)-3-Amino-4-[[[(2S)-1-methoxy-1-oxo-3-phenylpropan-2-yl]amino]-4-oxobutanoic acid; •N-L-αAspartyl-L-Phenylalanine-1-methyl ester; (3S)-3-Amino-4-[[[(2S)-1-methoxy-1-oxo-3-phenylpropan-2-yl]amino]-4-oxobutanoic acid; •aspartame;
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

Shelf life: 5 years

Derivation: synthetic

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

Complies with monographie: FCC IX/USP 37/E951

Packing:

- standard packaging = 25kg net weight with inner package of food used film bag in carton box or fiber drum
- custom packaging is available

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Jul. 2021

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