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Specification

Concerning Product:	
Article number	22839470BPEUJLY
Trade name / designation / denomination	Aspartame Granules, EP, USP, JP, FCC
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	$C_{14}H_{18}N_2O_5$

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP	Clear	
Physical parameter			
Conductivity	EP	≤ 30	µS/cm
Loss on drying	FCC/JSFA /EU/JECFA	≤ 4,5	%
pH value	FCC/JSFA /EU/JECFA	4.5 – 6.0	
Specific Optical Rotation	FCC/JSFA /EU/JECFA	14,5 – 16,5	°
Bulk density	HS	0,6 – 0,1	kg/l
Transmittance	EU/JECFA	≥ 95,0	%
Identity			
Assay	FCC	HPLC 98.0 – 102.0	%
Assay	JSFA/EU/JECFA	titration 98,0 – 102,0	%
Infrared absorbtion spectrometry	FCC/JSFA	Conforms with standard	

Impurities			
Residue on ignition	FCC/JSFA	≤ 0,2	%
Heavy Metals (as Pb)	EP	≤ 10	mg/kg
Related substances	USP/EP	≤ 2,0 ,1,5	%
Residual Solvents			
Residual solvents	HS	meets requirements	
Elemental Impurities			
Arsenic (As)	EP	≤ 3	mg/kg
Lead (Pb)	HS	≤ 1	mg/kg
Nutritional data			
L-Phenylalanine	EP	≤ 0,5	g/100g
Microbiological data			
Coliform bacteria	HS	≤ 10	
Escherichia Coli.	HS	negative	
Salmonella	EXT LAB	neg. in 25 g	
Yeast and Mould	HS	≤ 100	CFU/g
Particle size distribution			
Particles	HS	size on 250µm(60 Mesh) 80 – 100	%
Particles	HS	size on 850µm(20 Mesh) ≤ 3	%
Particles	HS	size through180µm(80 Mesh) ≤ 3,5	%

Supplemental information:

Shelf life: 5 years

Packing: Standard packaging:25 kg recyclable corrugated cardboard boxwith doubleinnerpolyethylene linersacks and safety cable tie

[ ]Standardverpackung: 25 kg recycelbarer Wellpappkarton mit doppelten Polyethylen-Lineracks und Sicherheitskabelbinder

Chemische Werke Hommel GmbH & Co.KG
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Waltrop, 26. Jun. 2020

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