



Specification

| Concerning Product: | |
|---|--|
| Article number | 22839470VEUL |
| Trade name / designation / denomination | Aspartame, FCC/EP/USP-NF/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 | Specification | Unit |
|-----------------------------|--|------------|
| Organoleptic test | | |
| Appearance of solution | Conform to EP | |
| Appearance | White crystalline powder or Granular | |
| Physical parameter | | |
| Loss on drying | ≤ 4,5 | % |
| pH value | 4,5 – 6,0 | |
| Specific Optical Rotation | 14,5 – 16,5 | ° |
| Solubility | Slightly soluble in water | |
| Transmittance | ≥ 95 | % |
| Identity | | |
| Assay | (105°C,4h) 98,0 – 102,0 | % |
| Identification | Meet the requirements | |
| Impurities | | |
| Residue on ignition | (Sulphate Ash) ≤ 0,2 | % |
| Heavy Metals (as Pb) | ≤ 10 | ppm |
| Impurity | Diketopiperazine(A) (5-benzyl-3,6-dioxo-2-Poperazineacetic acid) ≤ 1,5 | % |
| Related substances | ≤ 2,0 | % [w/w] |
| Elemental Impurities | | |
| Arsenic (As) | ≤ 3 | ppm |
| Lead (Pb) | ≤ 1 | ppm |
| Nutritional data | | |
| L-Phenylalanine | ≤ 0,5 | % |

Supplemental information:

Shelf life: 3 years

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 12. Sep. 2019

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