Chemische Werke Hommel GmbH & Co. KG

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Specification

Concerning Product:				
Article number	21510			
Trade name / designation / denomination	Butamirat-dihydrogencitrat			
CAS number	18109-81-4			
Other names / synonyms	â¢2-hydroxypropane-1,2,3-tricarboxylic acid; 2-phenylbutanoic acid 2-[2-(diethylamino)ethoxy]ethyl ester; â¢Butamirate Dihydrogencitrate; â¢diethyl[2-[2-(2-phenylbutyroyloxy)ethoxy]ethyl]ammonium dihydrogen citrate;			
EC number	242-006-8			
Molecular weight [g / mol]	499.55128			
Formula	C ₂₄ H ₃₇ NO ₁₀			

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution		Clear, < Y ₆	
Appearance		White to slightly yellow, lumpy powder	, waxy
Physical parameter			
Loss on drying		≤ 1,0	%
pH value		3,50 â 4,00	
Identity			
Assay		98,5 â 101,0	%
Identification	TLC	positive	
Identification		Test for citrates: positive	
Infrared absorbtion spectrometry		conform to the reference	
Melting Point (identity)		74,0 â 78,0	°C
UV spectroscopy		conform to the reference	
Impurities		·	

Heavy Metals (as Pb)		≤ 10	ppm
Readily carbonizable substances		†BY ₅	
Sulphated ash		≤ 0,1	%
Impurity	TLC	≤ 0,10	%
Impurity	HPLC	B1: ≤ 0,15	%
Impurity	HPLC	B2: ≤ 0,15	%
Impurity	HPLC	C: ≤ 0,15	%
Impurity	HPLC	D: ≤ 0,10	%
Impurity	HPLC	each other: $\leq 0,10$	%
Impurity	HPLC	sum: ≤ 1,0	%
Residual Solvents			
Acetone		≤ 5000	ppm
Petroleum Ether		≤ 5000	ppm
Toluene		≤ 890	ppm
Elemental Impurities			
Chlorides (Cl)		≤ 50	ppm
Microbiological data			
Aerobic microorganisms		≤ 1000	CFU/g
Escherichia Coli.		neg.	
Yeast and Mould		≤ 100	

Supplemental information:

Shelf life: 2 years

Version of manufacturer: 8

Conclusion: The above mentioned product complies with tests of AP 016/F076/C.

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Waltrop, 26. Sep. 2021

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