



Specification

Concerning Product:	
Article number	21700
Trade name / designation / denomination	Butetamat-dihydrogencitrat
CAS number	13900-12-4
Other names / synonyms	•2-hydroxypropane-1,2,3-tricarboxylic acid; 2-phenylbutanoic acid 2-(diethylamino)ethyl ester; •Butethamate Citrate; •diethyl[2-(2-phenylbutyroyloxy)ethyl]ammonium dihydrogen citrate;
EC number	237-671-6
Molecular weight [g / mol]	455.49872
Formula	C ₂₂ H ₃₃ NO ₉

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	clear and colourless	
Colour	white	
Physical parameter		
Form	crystalline powder	
Loss on drying	(100-105 °C) ≤ 0,5	%
pH value	(10% in H ₂ O): 3,5 – 4,0	
Specific Optical Rotation	+0,3 – -0,3	°
Solubility	in water: soluble	
Identity		
Assay	98,0 – 101,0	%
Identification	C. (DAB): violet coloration	
Identification	D. (DAB): complies	
Melting Point (identity)	A. (DAB): 108,0 – 110,0	°C
Impurities		
Heavy Metals (as Pb)	≤ 20	ppm
Sulphated ash	≤ 0,1	%
Sulphates (SO ₄)	≤ 100	ppm
Related substances	≤ 0,5	%
Elemental Impurities		
Chlorides (Cl)	≤ 100	ppm

Supplemental information:

Shelf life: 3 years

Complies with monographie: based on DAB 10

Regional origin: D

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Oct. 2022

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