



Specification

Concerning Product:	
Article number	23100
Trade name / designation / denomination	Diphenhydramin HCl
CAS number	147-24-0
Other names / synonyms	•2-(benzhydryloxy)-N,N-dimethylethanamine hydrochloride; •2-(diphenylmethyl)oxy-N,N-dimethylethanamine hydrochloride; •DIPHENHYDRAMINE; •Diphenhydramine Hydrochloride; •Diphenhydramine Hydrochloride, USP; •Diphenhydramine hcl; •Diphenhydramine hydrochloride; •[2-(diphenylmethoxy)ethyl]dimethylamine hydrochloride; •diphenhydramine hydrochloride;
EC number	205-687-2
Customs tariff number / CN code / TARIC	29221985
Molecular weight [g / mol]	291.81568
Formula	C ₁₇ H ₂₂ ClNO
Warning	
Harmful if swallowed.	

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution		Clear, ≤ BY7	
Appearance		white or almost white crystalline powder	
Physical parameter			
Acidity/Alkalinity	of 0,01M Sodium Hydroxyd	≤ 0,5	ml
Loss on drying	on dry basis	@ 150°C ≤ 0,5	%
Solubility		very soluble in water, freely soluble in alcohol	
Identity			
Assay		99 – 101	%
Infrared absorption spectrometry		should be concordant with working standard	
Melting Point (identity)		168 – 172	°C
UV spectroscopy	The ratio of the absorbance measured at the maximum at 258 to t _{at} measured at the maximum at 264 nm	1,2 – 1,4	
UV spectroscopy	The ratio of the absorbance measured at the maximum at 258 to t _{at} measured at the maximum at 253 nm	1,1 – 1,3	
Impurities			
Sulphated ash		≤ 0,1	%
Related substances		Impurity A: ≤ 0,5	% [w/w]
Related substances		in sum: ≤ 1,0	% [w/w]
Related substances		Unspecified impurities ≤ 0,3	% [w/w]
Residual Solvents			
Residual solvents		2-Chloropropane ≤ 5000	
Residual solvents		Isopropylalcohol ≤ 5000	
Residual solvents		Monochlorobenzene ≤ 360	
Elemental Impurities			
Chlorides (Cl)		gives reaction	%

Supplemental information:

Shelf life: 5 years

Chemische Werke Hommel GmbH & Co.KG
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Waltrop, 28. Aug. 2020

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