



Spezifikation

Produktbezug:	
Produktnummer	23100
Handelsname / Bezeichnung	Diphenhydramin HCl EP/BP/USP
CAS Nummer	147-24-0
Andere Bezeichnungen / Synonyme	•2-(benzhydrixy)-N,N-dimethylethanamine hydrochloride; •2-(diphenylmethyl)oxy-N,N-dimethylethanamine hydrochloride; •DIPHENHYDRAMINE; •Diphenhydramin HCl; •Diphenhydramine Hydrochloride; •Diphenhydramine Hydrochloride, USP; •Diphenhydramine hcl; •Diphenhydramine hydrochloride; •Diphenhydraminhydrochlorid; •[2-(diphenylmethoxy)ethyl]dimethylamine hydrochloride;
EG Nummer	205-687-2
Zolltarifnummer / CN-Code	29221985
Molekulargewicht [g/mol]	291.81568
Formel	C ₁₇ H ₂₂ ClNO
Achtung	
Gesundheitsschädlich bei Verschlucken.	

Parameter	Test Method	Specification	Unit
Sensorische Prüfung			
Aussehen der Lösung		klar, ≤ BY6	
Aussehen		weißes oder fast weißes kristallines Pulver, geruchlos	
Physikalische Parameter			
Säuregehalt	of 0,01M Sodium Hydroxyd	≤ 0,5	ml
Trocknungsverlust		@ 105°C ±2°C; 3h: ≤ 0,5	%
Trocknungsverlust	on dry basis	@ 150°C ≤ 0,5	%
Löslichkeit		Frei löslich in Wasser, in Alkohol und in Chloroform. Wenig löslich in Aceton	
Identifikation			
Gehalt	USP	HPLC on dry basis 98,0 – 102,0	%
Gehalt	EP/BP	on dry basis 99 – 101	%
Identifizierung		RT durch HPLC: Die Retentionszeit des Hauptpeaks der Probenlösung sollte derjenigen der Standardlösung entsprechen	
Infrarot Spektroskopie		sollte mit dem Arbeitsstandard übereinstimmen	

Verunreinigungen			
Glührückstand		≤ 0,1	%
Sulphatasche		≤ 0,1	%
Verunreinigung		(HPLC) total: ≤ 1,0	%
Verunreinigung		(HPLC) 4-Bromodiphenhydramine ≤ 0,3	%
Verunreinigung		(HPLC) 4-Methyldiphenhydramine ≤ 0,3	%
Verunreinigung		(HPLC) andere unspezifizierte Verunreinigungen ≤ 0,1	%
Verunreinigung		(HPLC) Benzhydrol ≤ 0,3	%
Verunreinigung		(HPLC) Benzophenone ≤ 0,3	%
Verunreinigung		(HPLC) Diphenhydramine related compound A ≤ 0,5	%
Verwandte Substanzen		Impurity A: ≤ 0,5	% [w/w]
Verwandte Substanzen		in sum: ≤ 1,0	% [w/w]
Verwandte Substanzen		Unspecified impurities ≤ 0,3	% [w/w]
Restlösemittel			
Restlösemittel		2-Chloropropane ≤ 360	ppm
Restlösemittel		Isopropylalcohol ≤ 5000	ppm
Restlösemittel		Monochlorobenzene ≤ 360	ppm

Zusätzliche Angaben:

Mindesthaltbarkeit: 5 Jahre

Hinweis: Lackmus-Test: Seine Lösungen sind praktisch neutral zu Lackmus

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Feb. 2025

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