

Certificate of analysis



Article	4185	Cholinchlorid	
Synonym		Cholinii chloridum,Cholinum chloratum	
Synonym		Choline chloride	
Batch	21002730		
Specification	DAC 2020/2		
Production date	12.2020	Retest date	12.2023

Test	Specification	Result	
Characters	According to specification	Complies	
Appearance	According to specification	Complies	
Solubility	According to specification	Complies	
Identification	According to specification	Complies	
IR spectrophotometry	According to specification	Complies	
C	According to specification	Complies	
Tests	According to specification	Complies	
Appearance of solution	According to specification	Complies	
Acidity or alkalinity	According to specification	Complies	
Related substances	According to specification	Complies	
Ammonia, volatile amines	According to specification	Complies	#
Ammonia, primary amines	Max. 0,5	< 0,5 ml 0,02 M NaOH	#
Ethylene oxide	Max. 1 ppm	0 ppm	
Dioxan	Max. 10 ppm	0 ppm	
Loss on drying	Max. 1,5 %	0,8 %	
Sulphated ash	Max. 0,1 %	< 0,1 %	#
Assay	98,5 ... 101,5 %	100,7 %	
Complies specification		Yes	

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Release date	08.09.2021	Released by	Frau Apoth. Brunk
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Results marked with # were taken from the manufacturer's certificate.

The batch 21002730 complies specification.

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