

9001

# **Certificate of Analysis**

## **Reference Material**

#### **Product name**

2,2'-(Disulfane-1,2-diyl)bis(N,N-diethylethanamine) Dihydrochloride

#### Product code MM0394.06

**CAS number** 22194-38-3

Molecular weight 337.42

white solid Melting point 213 °C (dec)

Lot number

Appearance

1028909

Long-term storage 2 to 8 °C, dark very hygroscopic

> Assay "as is" **96.6 %**

Date of shipment:

13 Sep 2019

Producer confirms that this reference material (RM) meets the specification detailed on this Certificate of Analysis for **one year** from the date of shipment, provided the substance is stored under the recommended conditions unopened in the original container.

Release by: Date of Release:	0	
Dr. Sabine Schröder Luckenwalde, 03 Sep 2019	Joia	Product Release

Organisation certified to ISO 9001 | DQS 102448 and GMP (EXCIPACT)

Producer: LGC GmbH Louis-Pasteur-Str. 30 D-14943 Luckenwalde Germany www.lgcstandards.com Page 1/7

HCI



## **Product information**

For laboratory use only. Not suitable for human or animal consumption.

Before usage of the RM, it should be allowed to warm to room temperature. No drying required, as the certified value is already corrected for the content of water and other volatile materials.

The product quality is controlled by regularly performed quality control tests (retests).

## **Further content**

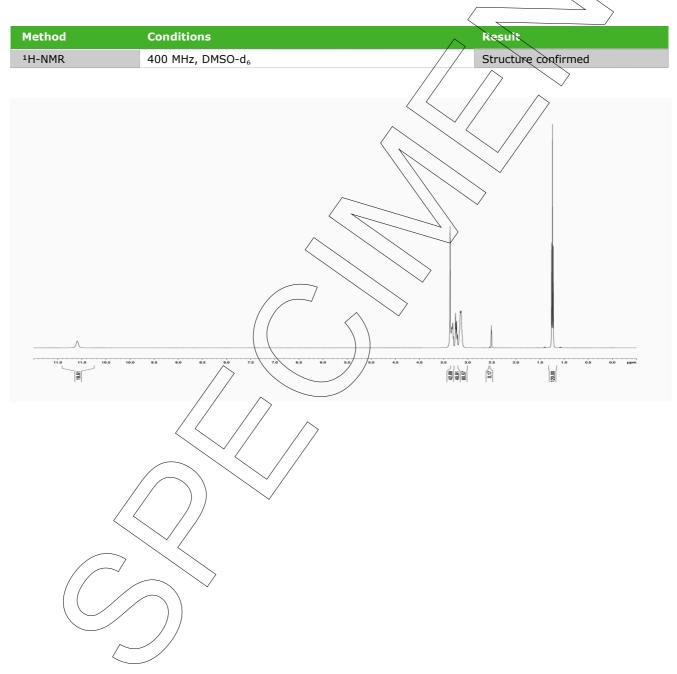
Identity Assay Final result

Revision table

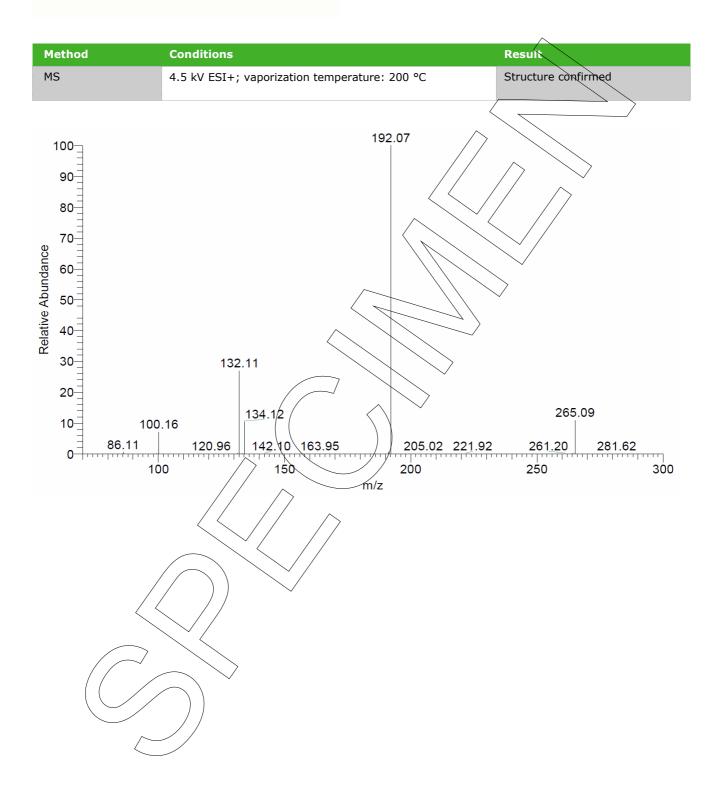


# Identity

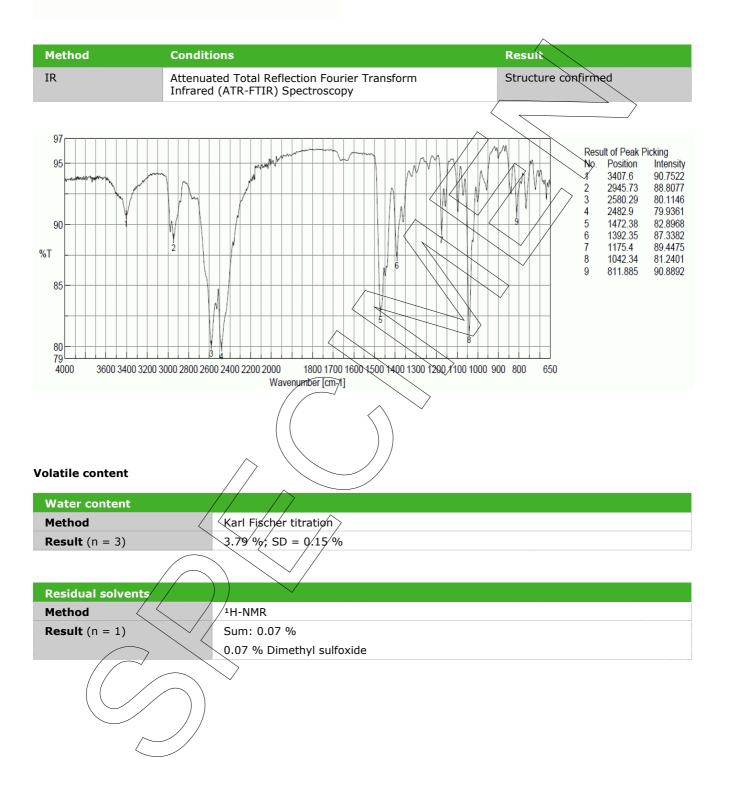
The identity of the reference material was established by following analyses.













## **Final result**

Assay "as is":

96.56 %

The assay "as is" is assessed by quantitative NMR spectroscopy and is equivalent to the assay based on the not anhydrous and not dried substance respectively.

Method: Value assigning technique - quantitative NM	
Conditions	400 MHz, DMSQ-d
Internal standard	1,3,5-Trimethoxybenzene (certified reference material), signal 5,7 - 6.5 ppm, 3,H
Result (mass fraction, n = 3)	96.56 %; \$D = 0.09 %
uantitative NMR spectrum	



## F

Revision	table	
Revision	Date	Reason for revision
00	03 Sep 2019	Release of the Certificate of Analysis - initial version
roduct warran	ties for the RM are se	et out in the terms and conditions of purchase.
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