

Fluka™ Analytical Standards

Advance your analysis with expert technical support



Advance your analysis

Honeywell Fluka™ analytical standards offers a growing range of high quality inorganic and organic reference materials produced according to ISO 9001, and suitable for a wide range of industries and applications. Every vial comes complete with a printed Certificate of Analysis (CoA) and is eligible for free expert technical support - ensuring you have the information you need to quickly start your analysis, and pass relevant audits.

Each CoA includes:

1. Contact and technical support details
2. Expiry date
3. Product number, name and batch
4. General product information
5. Lot specific analytical results
6. Purity test by HPLC, GC, LC-MS, GC-MS and Titration
7. Identity test by NMR, FT-IR or Mass Spectrometry

Honeywell
CERTIFICATE OF ANALYSIS

1. Honeywell Specialty Chemicals Seelze GmbH D-30918 Seelze
phone: +49 51 37 999-150
email: TS.standards@honeywell.com

2. Batch: 05.06.2018 / CDANL50377190/ GE11809694

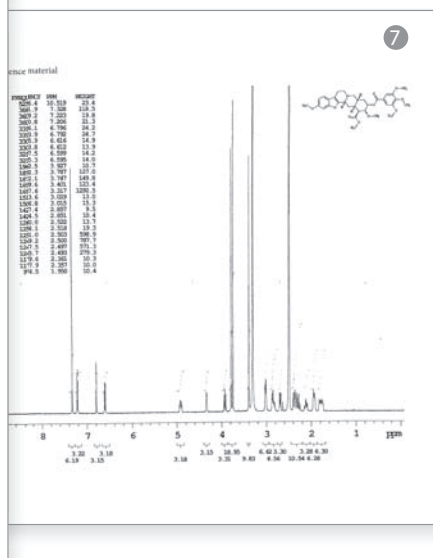
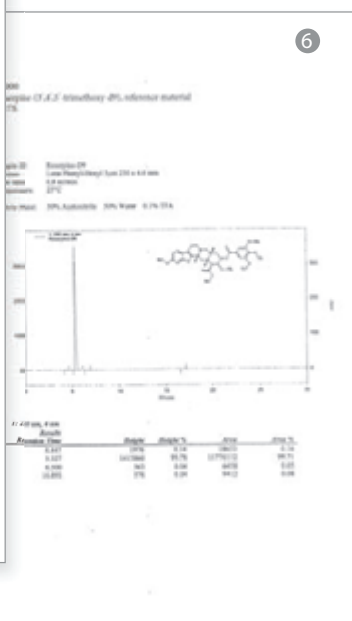
3. Article/Product: R11000 Batch: 1117X
Reserpine-(3,4,5-trimethoxy-d9), reference material

4. Reference Material (RM)
1. General Information
Formula: C33H31D9N2O9 Molar mass: 617.73 g/Mole
CAS-No.: [84759-11-5] Recomm. storage temp.: roomtemp.

5. 2. Batch Analysis
Identity (NMR) complying
assay (HPLC) 99.7 area %
measurement uncertainty ± 0.5 %
assay D >99 %
melting range 273 - 275 °C

3. Advice and Remarks
* The supply date is based on the current knowledge and holds only for proper storage conditions in the originally closed fluka® package.
* Whenever the container is opened for removal of aliquot portions of the substance, the person handling the substance must ensure that the integrity of the substance is maintained and proper records of all the handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
* We warrant content but the delivery is effected according to the technical delivery conditions agreed.
* Particular properties of the products or the suitability for a particular area of application are not assured.
* We guarantee a proper quality within our General Conditions of Sale.

Honeywell
Quality Management
This document was produced electronically and is valid without a signature.





Honeywell
Fluka™

Pharmaceutical & Veterinary Compounds

- All Pharmaceutical & Veterinary Compounds
- ACE inhibitors
- Anesthetics
- Anthelmintics, Flukicides
- Antibacterial agents
- Antibiotics
- Anticoccidial
- Antiemetics
- Antiprotozoal agents
- Benzimidazoles
- beta-Agonist, Antagonists
- Coccidiostat
- Hydantoins
- Imidazoles
- Neuroleptics
- NSAIDs
- Polypeptides
- Retinoides
- Steroids, Hormones
- Sulfonamides
- Tranquilizers



Pesticides & Metabolites

- All Pesticides & Metabolites
- Acaricides, Insecticides
- Fungicides, Bactericides
- Herbicides
- Molluscicides
- Plant growth regulators
- Rodenticides

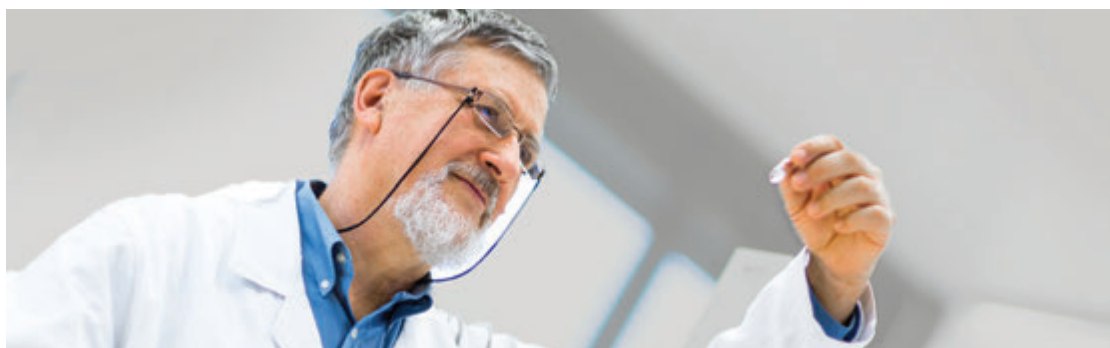


APEX CHEMICALS CO., LTD. (Head Office)

2034/87, Italthai Tower 19th Floor, New Petchburi Road, Bangkok, Huaykwang, Bangkok 10310, Thailand
Tel. 02-038-9999 Fax. 02-038-0099

 info@apexchemicals.co.th  [ApexChemicals](https://www.facebook.com/ApexChemicals)  [@ApexChemicals](https://www.line.me/@ApexChemicals)  www.apexchemicals.co.th





Limit expensive delays with free expert technical support

If you have a critical question that is not addressed by our documentation, Honeywell Fluka provide fast technical support from experts who have been developing, producing and testing standards for decades, ensuring you get timely, effective help with even the trickiest application questions – potentially saving you hundreds of Euros, and hours of lab-work*.

- We solve the majority of customer product enquiries after one email or phone call.
- More complex application troubleshooting is normally resolved within 5 working days.

Save valuable lab-time using Honeywell custom standards

Producing a standard in-house can be a technically challenging, time consuming and expensive process, requiring you to source materials, purify, and validate your standard.

Our extensive experience enables us to efficiently produce and test custom standards to your requirements for less than it would cost to produce in-house**.

- With all our facilities on one site, our expert team can develop, test and manufacture a simple custom standard within a week, and a more complex custom standard within two.
- Because our custom standards are guaranteed to be the correct specification and come with full documentation, you can be sure your analysis is reliable and accurate.

To browse our complete reference material range, or to request a quote for a custom standard visit lab-honeywell.com/standards.



Honeywell Specialty Chemicals Seelze GmbH D-30918 Seelze

phone: +49 5137 999-150

email: TS-standards@honeywell.com

Seelze, 20.07.2018 / COAH_00394557/ GE61/18/15118

Date of Analysis: 19.Jul.2018

Production Date: 11.Jun.2018

Expiry Date: 11.Jun.2021

Article/Product: R1311

Batch: I162X

Amiprofos methyl, reference material

Reference Material (RM)

เป็นสารมาตรฐานที่เป็น
Reference Materials

1. General Information

Formula: C₁₁H₁₇N₂O₄PS

CAS-No.: [36001-88-4]

Usage : Herbicide

Molar mass: 304.30 g/Mole

Recomm. storage temp.: 2-8 °C

2. Batch Analysis

identity (NMR)

assay (GC)

measurement uncertainty

melting range

water (Karl Fischer)

Uncertainty of Measurement

มีการรายงานค่าความไม่แน่นอนในการวัด

complying

99.9

± 0.5

66.2 - 67

<0.2

area %

%

°C

%

3. Advice and Remarks

- The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- Whenever the container is opened for removal of aliquot portions of the substance, the person handling the substance must assure, that the integrity of the substance is maintained and proper records of all its handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

Honeywell
Quality Management

This document was produced electronically and is valid without a signature

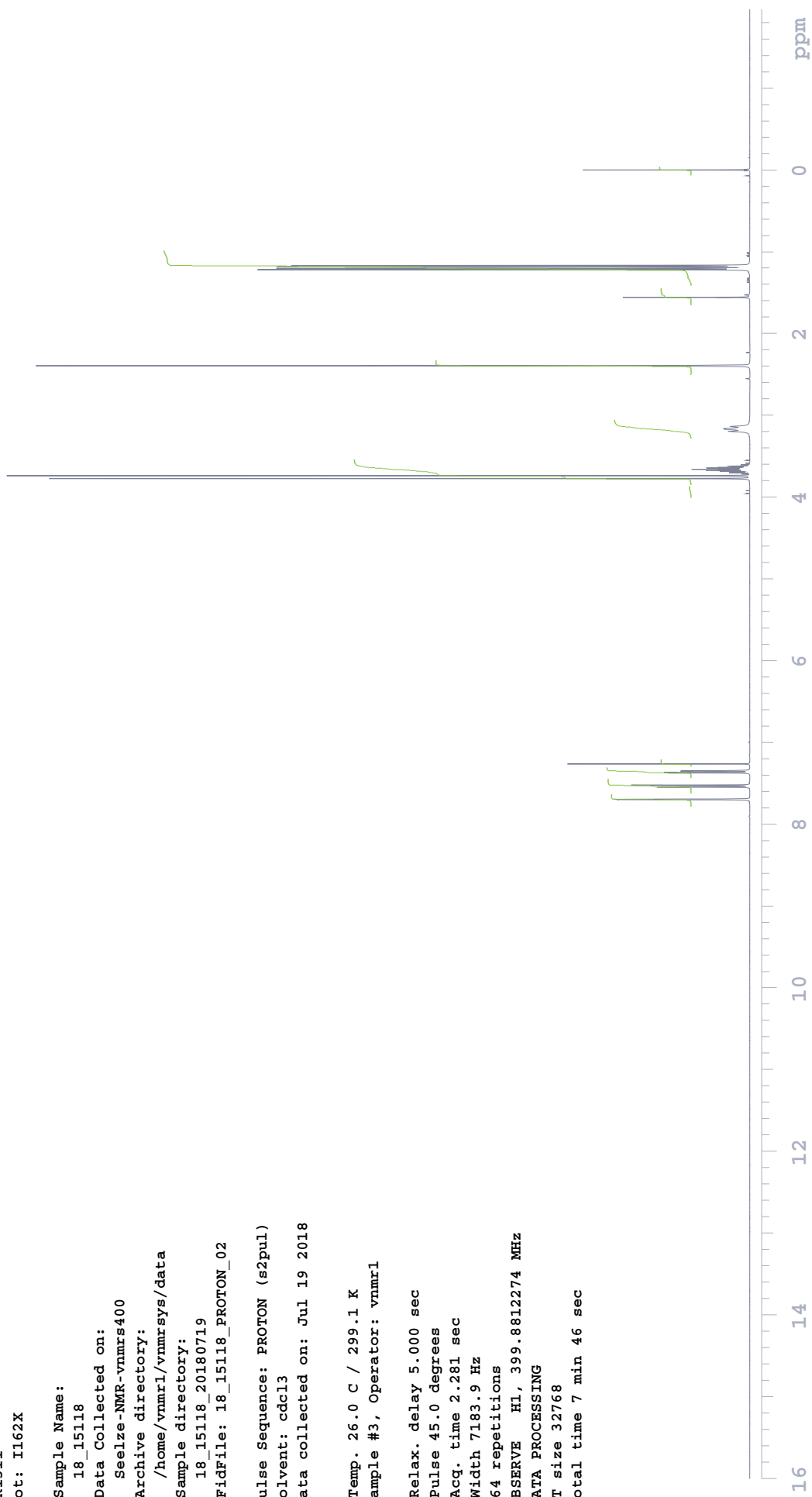
Amipofos methyl
reference material
#R1311
Lot: I162X

Sample Name:
18_15118
Data Collected on:
Seelze-NMR-vnmrs400
Archive directory:
/home/vnmr1/vnmrsys/data
Sample directory:
18_15118_20180719
FidFile: 18_15118_PROTON_02

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 19 2018

Temp. 26.0 C / 299.1 K
Sample #3, Operator: vnmr1

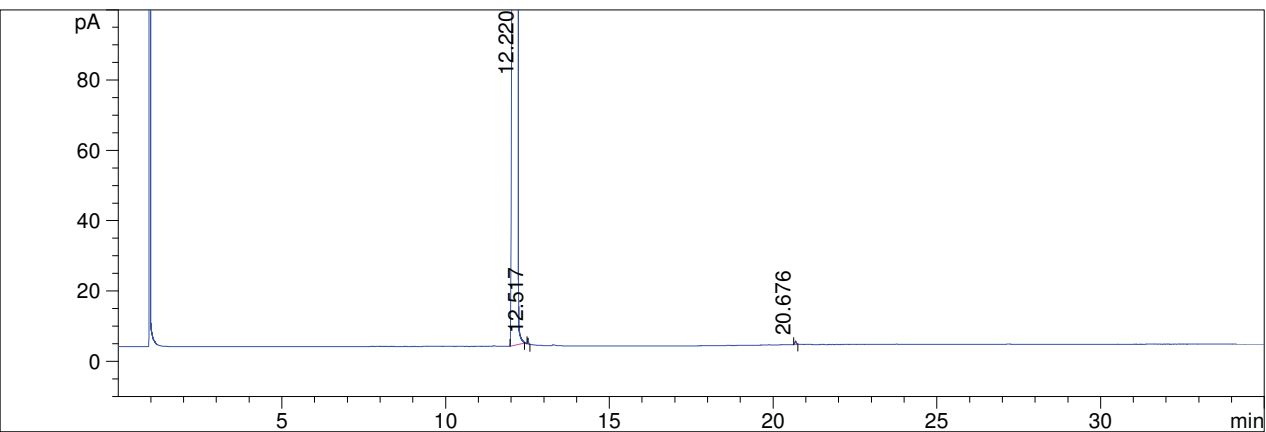
Relax. delay 5.000 sec
Pulse 45.0 degrees
Acq. time 2.281 sec
Width 7183.9 Hz
64 repetitions
OBSERVE H1, 399.8812274 MHz
DATA PROCESSING
FT size 32768
Total time 7 min 46 sec



Article : Amiprofos methyl
Article-No : R1311
Lot : I162X

Column : Rtx-5, 30m, 0,25mm i.D., 0,25µm Film
Inj.-Temp. : 300°C
Det.-Temp. : 320°C - FID
Oven-Temp. : 100°C to 300°C (10°C/min) hold 15min
Split : 1:100
Flow : 1ml He/min
Inj.v. : 1µl solution (~5% in Dichloromethane)
Evaluation : Normalisation (uncorrected)
Operator : Florie

C H R O M A T O G R A M M



Area Percent Report

#	Meas. R	Height	Area	Area %
1	12.220	841.638	5728.92	99.90
2	12.517	1.582	2.63	0.05
3	20.676	0.985	2.95	0.05

Honeywell Specialty Chemicals Seelze GmbH D-30918 Seelze

phone: +49 5137 999-150

email: TS-standards@honeywell.com

Seelze, 10.07.2018 / COAH_00390342/ GE61/18/14259

Date of Analysis: 10.Jul.2018

Production Date: 11.Jun.2018

Expiry Date: 11.Jun.2021

Article/Product: R1332

Batch: I162X

Terconazole, reference material

Reference Material (RM)

เป็นสารมาตรฐานที่เป็น
Reference Materials

1. General Information

Formula: C₂₆H₃₁Cl₂N₅O₃

CAS-No.: [67915-31-5]

Usage : Antifungal

Molar mass: 532.46 g/Mole

Recomm. storage temp.: roomtemp.

2. Batch Analysis

identity (NMR)

assay (HPLC)

measurement uncertainty

melting range

water (Karl Fischer)

Uncertainty of Measurement

มีการรายงานค่าความไม่แน่นอนในการวัด

complying

99.6

± 0.5

128.1 - 128.4

0.1

area %

%

°C

%

3. Advice and Remarks

- The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- Whenever the container is opened for removal of aliquot portions of the substance, the person handling the substance must assure, that the integrity of the substance is maintained and proper records of all its handlings are kept. Special care has to be taken to avoid any contamination or adulteration of the substance.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

Honeywell
Quality Management

This document was produced electronically and is valid without a signature

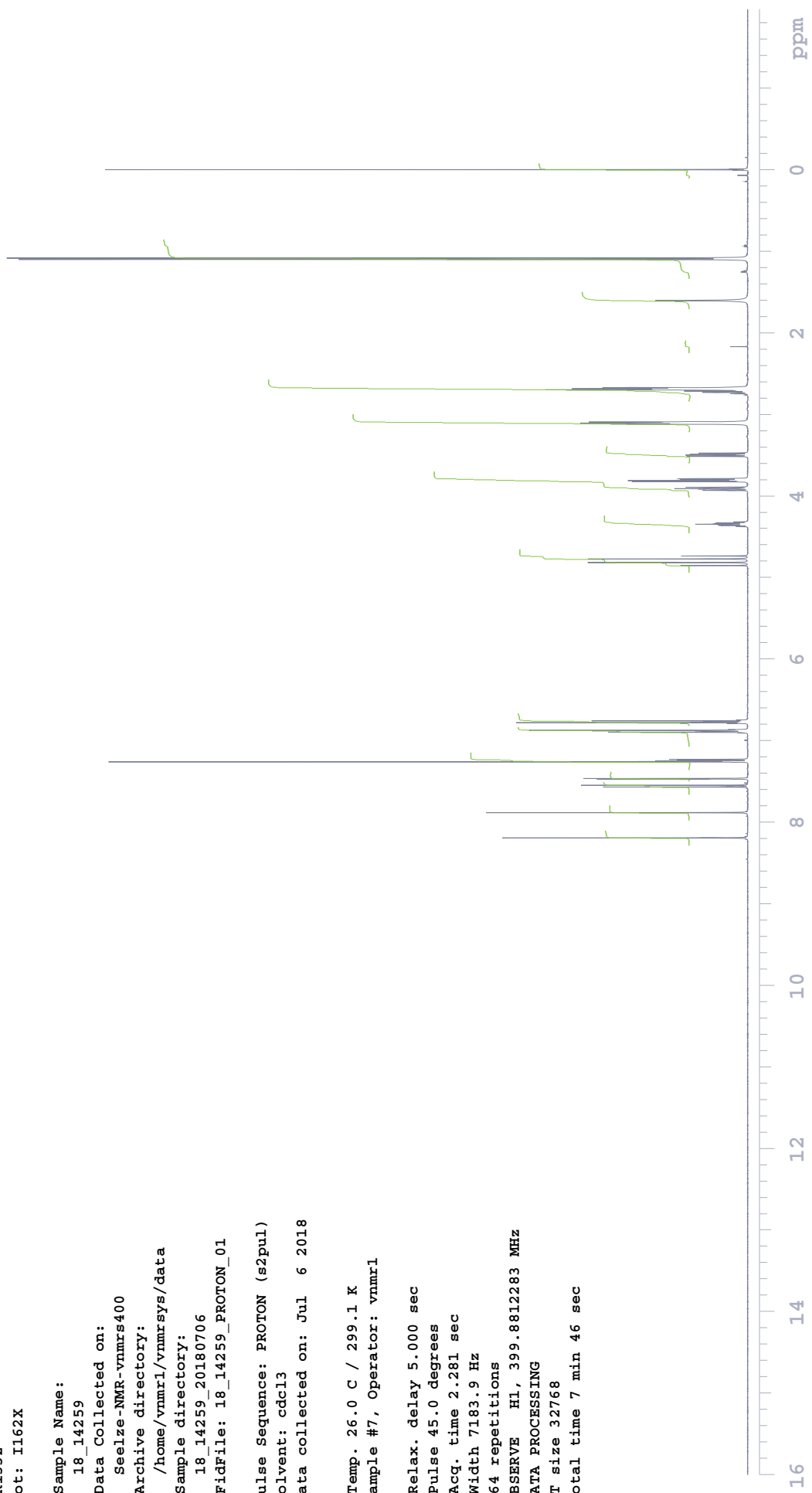
Terconazole
reference material
#R1332
Lot: I162X

Sample Name:
18_14259
Data Collected on:
Seelze-NMR-vnmrs400
Archive directory:
/home/vnmr1/vnmrsys/data
Sample directory:
18_14259_20180706
FidFile: 18_14259_PROTON_01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jul 6 2018

Temp. 26.0 C / 299.1 K
Sample #7, Operator: vnmr1

Relax. delay 5.000 sec
Pulse 45.0 degrees
Acq. time 2.281 sec
Width 7183.9 Hz
64 repetitions
OBSERVE H1, 399.8812283 MHz
DATA PROCESSING
FT size 32768
Total time 7 min 46 sec

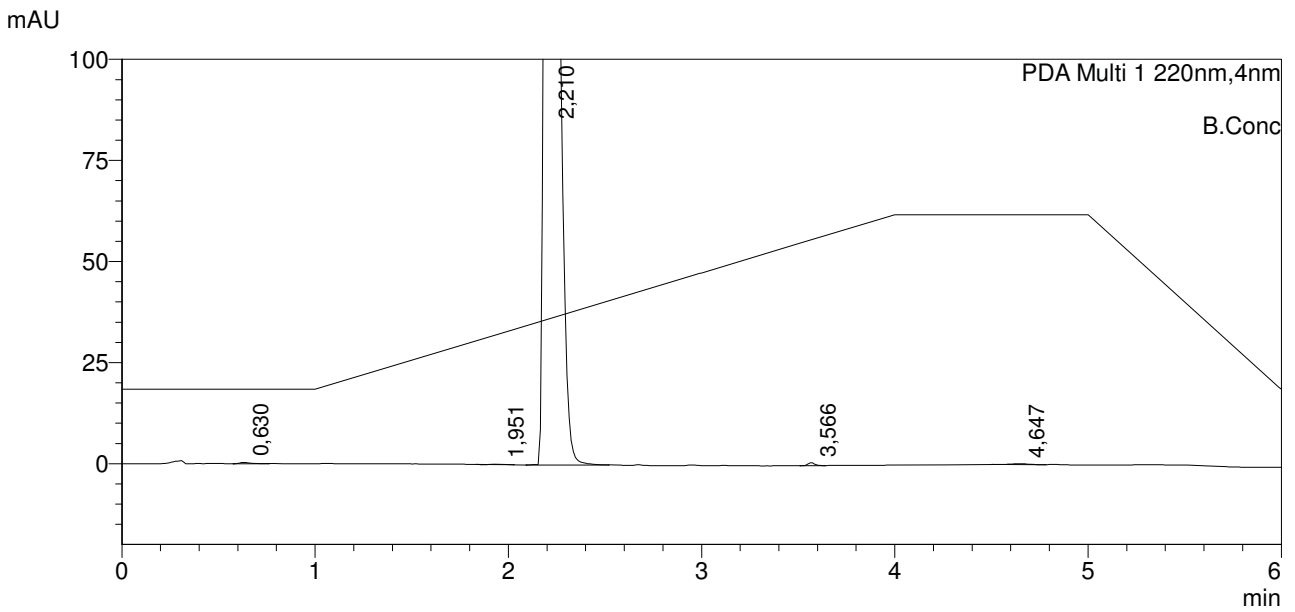


<Sample Information>

Article-No: R1332
 Article: Terconazole, reference material
 Batch: I162X

Column: Poroshell 120 EC C18 2,7µm 3,0*50mm
 Eluent A: Acetonitrile
 Eluent B: Water + 0,1% Phosphoric acid
 Gradient: time %A %B
 1 min 30 70
 4 min 70 30
 6 min Stop

Flow: 0,8 mL/min
 Detection: UV - 220nm
 Injection-Vol: 10 µL
 Sample-Preparation: 10 mg / 100mL ACN-H2O 30-70
 Linearity: checked
 Evaluation: Normalisation (uncorrected)
 Operator: Schowe



<Peak Table>

PDA Ch1 220nm				
Peak#	Ret. Time	Area	Height	Area%
1	0,630	1372	315	0,100
2	1,951	574	168	0,042
3	2,210	1365552	295499	99,629
4	3,566	1809	737	0,132
5	4,647	1327	217	0,097
Total		1370633	296936	100,000



CERTIFICATE



This is to certify that

Honeywell Specialty Chemicals Seelze GmbH

Wunstorfer Straße 40
30926 Seelze
Germany

has implemented and maintains a **Quality Management System**.

Scope:

Development, Production and Distribution of Laboratory Chemicals, Fine Chemicals and Industrial Chemicals, Luminescent Pigments and Electronic Chemicals

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	000509 QM15
Valid from	2018-03-09
Valid until	2021-03-08
Date of certification	2018-03-09



Deutsche
Akkreditierungsstelle
D-ZM-16074-01-00

DQS GmbH

Stefan Heinloth
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany

