

**CERTIFICATE OF ANALYSIS /  
INSPECTION CERTIFICATE 3.1 acc. to DIN EN 10204**

Sigma-Aldrich Laborchemikalien GmbH D-30918 Seelze  
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Seelze, 09.03.2009/937852/08/03786

Order-No.:

Customer-No.:

Order-Code:

Quantity:

Production Date: 11.Feb.2008

Expiry Date: 11.Feb.2015

Article/Product: 45684

Batch : SZE8042X

Thiabendazole PESTANAL®

**Reference Material (RM)****1. General Information**

Formula: C<sub>10</sub>H<sub>7</sub>N<sub>3</sub>S  
CAS-No.: [148-79-8]  
Usage : Fungicide

Molar mass: 201.25 g/Mole  
Recomm. storage temp.: roomtemp.

The estimated uncertainty of a single measurement of the assay can be expected to be 0.5 % relative (confidence level = 95%, n= 6) whereby the assay measurements are calculated by 100% minus found impurities.

**2. Batch Analysis**

Identity (NMR)  
Assay (GC)  
Melting range  
Water (Karl Fischer)  
Date of Analysis

complying	
99.8	area %
300.7-302.2	°C
0.0604	%
03.Mar.2008	

**3. Advice and Remarks**

- The minimum shelf life 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.
- A sample of the above mentioned batch showed the listed analytical values.
- 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.

Sigma-Aldrich Laborchemikalien GmbH  
Quality Assurance



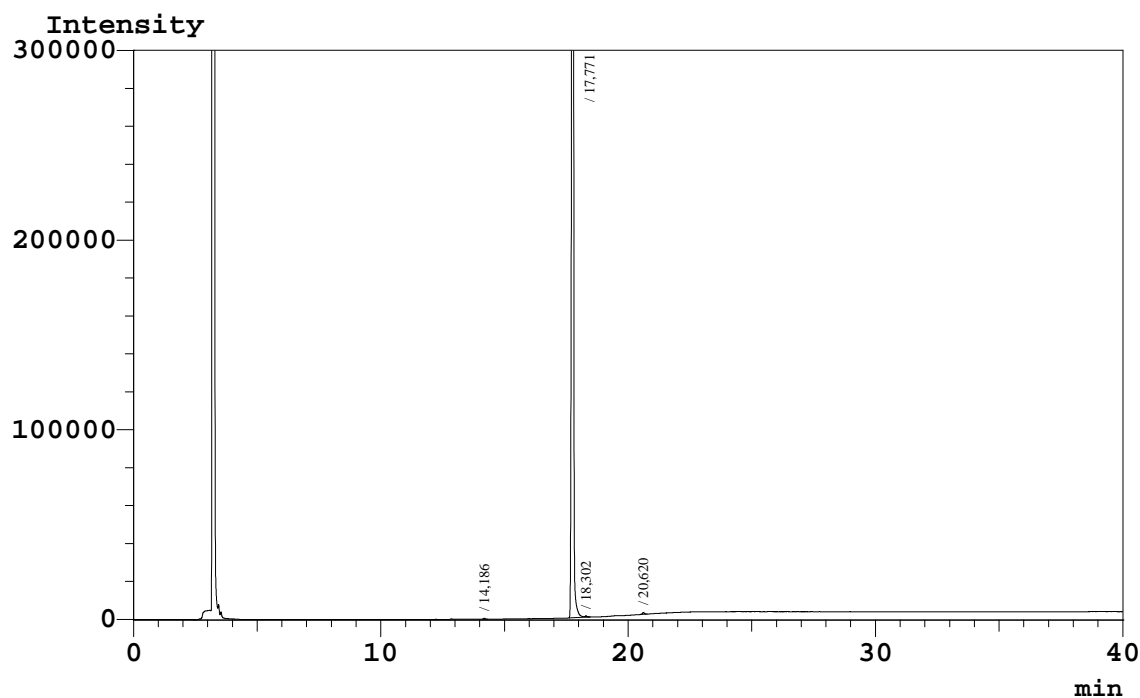
**Works Inspector**

Honeywell Specialty Chemicals Seelze GmbH  
Analytical Department

GLC-Method

Article : Thiabendazole  
Article-No : 45684  
Batch : SZE8042X

Column : MDN-5, 30m,fs cap.,I.D.=0,32mm,1,0micron df  
Inj.-temp. : 260°C  
Det.temp. : 330°C  
Oven-temp. : 180°(4min)to 320°C(10°/min)hold 15min  
Split : 1:100  
Flow : 1ml He/min  
Inj.v. : 1µl solution in DMSO(ca.100mg/ml)  
Evaluation : Normalisation(uncorrected)  
Operator : Schuster



Peak Table - Channel 1

Peak#	Ret.Time	Area	Height	area-%
1	14,19	1870	502	0,044
2	17,77	4254290	929175	99,794
3	18,30	1922	539	0,045
4	20,62	4971	925	0,117
<b>Total</b>		<b>4263053</b>	<b>931141</b>	<b>100,000</b>