

## Certificate of Analysis

**Product Name:** Metribuzin  
PESTANAL™, analytical standard

**Product Number:** 36165

**Batch Number:** BCCG9525

**CAS Number:** 21087-64-9

**Formula:** C<sub>8</sub>H<sub>14</sub>N<sub>4</sub>OS

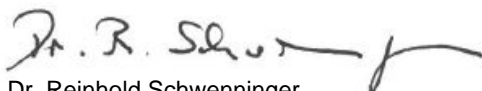
**Formula Weight:** 214.29

**Storage Temperature:** 2-8 C

**Expiration Date:** FEB 2027

**Quality Release Date:** 10 MAR 2022

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO OFF WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (GC AREA %)	≥ 98.0 %	99.5 %
MELTING POINT	124 - 129 C	126 C
WATER	≤ 1.0 %	< 0.1 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



Dr. Reinhold Schwenninger

Quality Assurance

Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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**Shimadzu GC-2010 Plus**

<b>Injector :</b>	250 °C	<b>GC Serial Number:</b>	C11805270206 US
<b>Detector (FID):</b>	320 °C	<b>Injection Time:</b>	01.03.22 15:38
<b>Carriergas:</b>	Helium	<b>Sample Type:</b>	Unknown
<b>Velocity:</b>	40.0 cm/s	<b>Channel:</b>	GC_1
<b>Temp. Control:</b>	see Figure 1	<b>Sequence Creation Time:</b>	01.03.22 10:55
<b>Split Ratio:</b>	100:1	<b>Sequence Created By:</b>	Fabiano Neto Santos
<b>Range:</b>	-	<b>Time Processed:</b>	11/Mar/2022 09:18
<b>Injection Volume:</b>	1.0 ul	<b>Processed By:</b>	murthale
<b>Vial Number:</b>	Tray1:15		
<b>Run Time:</b>	20.00 min		
<b>Column:</b>	Equity-5, 30 m x 0.25 mm, 1.0 um		
<b>Sample Prep.:</b>	10 mg sample in 1 ml methylene chloride		

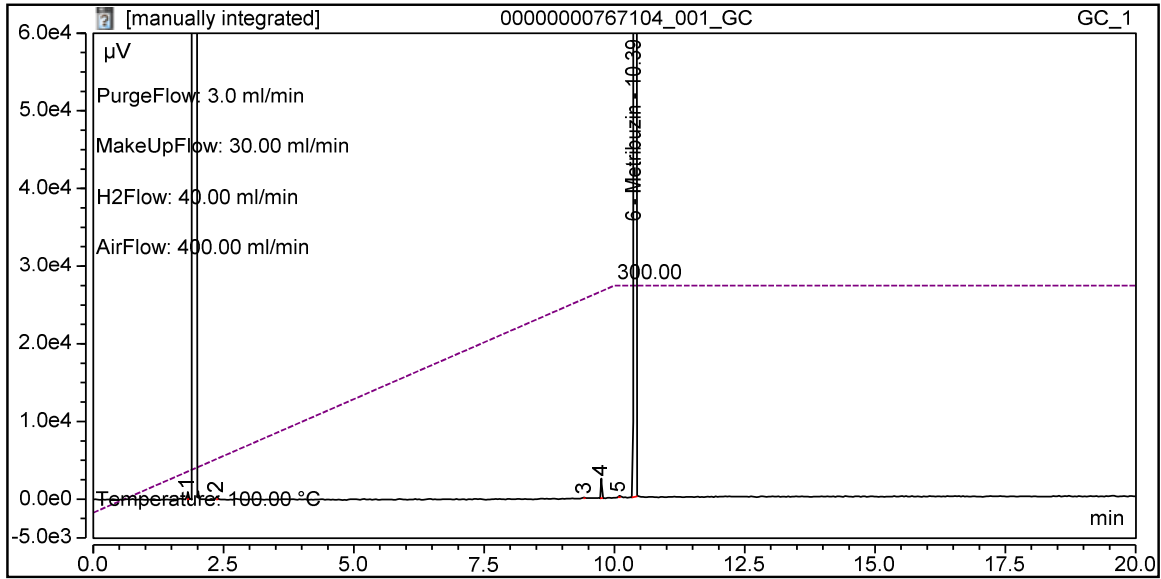


Figure 1: Zoomed Chromatogram and Temperatur Program

No.	Ret. Time min	Peak Name	Type	Height μV	Area μV*min	Amount	Rel. Area %
1	1.813		BMB*	964	14.8720	n.a.	0.098
2	2.375		BMB*	447	7.7143	n.a.	0.051
3	9.430		BMB*	199	3.8518	n.a.	0.025
4	9.749		BMB	2512	50.0160	n.a.	0.329
5	10.091		BMB*	217	5.1628	n.a.	0.034
6	10.391	Metribuzin	BMB	628897	15118.1683	n.a.	99.463
<b>Total:</b>				<b>633237</b>	<b>15199.7853</b>		<b>100.000</b>

