

# Certificate of Analysis

**Product Name:** ALDICARB-SULFOXIDE  
PESTANAL™, analytical standard

**Product Number:** 31258

**Batch Number:** BCBV1810

**Brand:** Sigma-Aldrich

**CAS Number:** 1646-87-3

**Formula:** C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>S

**Formula Weight:** 206.26

**Storage Temperature:** 2-8 C

**Expiration Date:** APR 2022

**Quality Release Date:** 12 MAY 2017

TEST	SPECIFICATION	RESULT
PURITY (HPLC AREA %)	≥ 98.0 %	99.9 %
MELTING POINT	103 - 108 C	105 C
WATER	≤ 1.0 %	0.12 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



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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.

### 31258 Aldicarb-sulfoxide

Lot Number: **BCBV1810**      Sample Name: **T26908\_001\_LC**

Dionex Ultimate 3000 RSLC	
<b>Pump</b> : LPG-3400RS	<b>Injection Time</b> : 04.05.17 12:00
<b>Autosampler</b> : WPS-3000	<b>Processed By</b> : Markus Urthaler
<b>Detector</b> : VWD-3400	<b>Vial Number</b> : RE4
<b>Column</b> : Supelco Ascentis Express C18, 2.7 um	<b>Column S/N</b> : -
<b>Column Dim.</b> : 50 x 2.1 mm	<b>Sample Type</b> : unknown
<b>Mobile Phase</b> :	<b>Injection Volume</b> : 1.0 µl
%A: Acetonitrile	<b>Flow</b> : 1.00 ml/min
%B: Methanol	<b>Column Temp. (°C)</b> : 35.0
%C: Wasser	<b>Run Time</b> : 6.00 min
%D: Water	
<b>Gradient</b> : see Figure 1	
<b>Sample Prep.</b> : 2 mg sample in 2 ml acetonitrile:water 1:1	

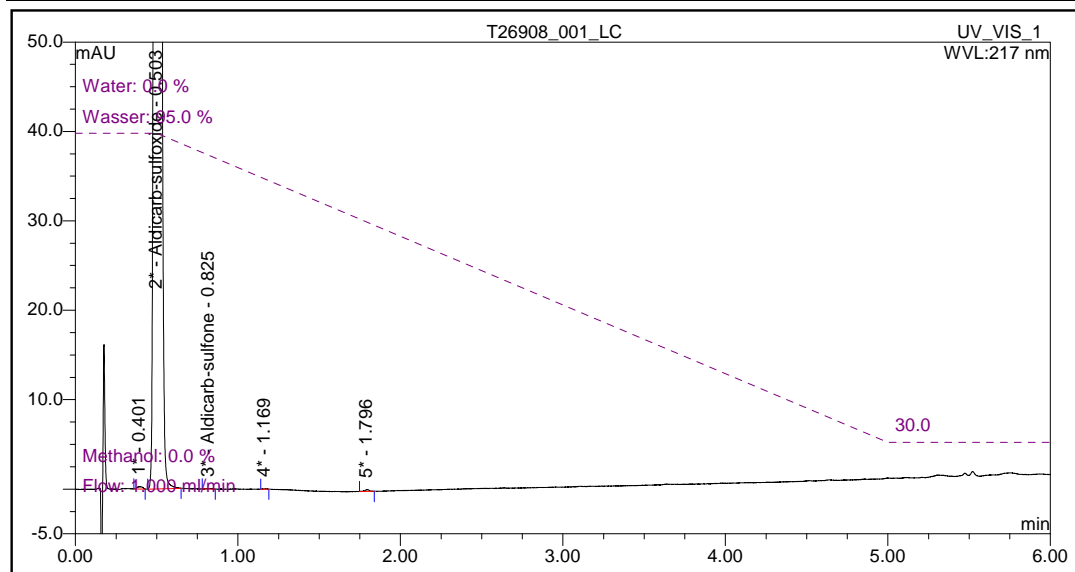


Figure 1: Zoomed Chromatogram

No.	Ret.Time min	Peak Name	Area mAU*min	Height mAU	Amount	Rel.Area %
1	0.401	n.a.	0.01109	0.27902	n.a.	0.07
2	0.503	Aldicarb-sulfoxide	15.23715	367.76409	n.a.	99.86
3	0.825	Aldicarb-sulfone	0.00267	0.06609	n.a.	0.02
4	1.169	n.a.	0.00104	0.04903	n.a.	0.01
5	1.796	n.a.	0.00698	0.21381	n.a.	0.05
<b>Total:</b>			<b>15.25893</b>	<b>368.37204</b>		<b>100.00</b>

Table 1: Integration