

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

12537400 Diclofenac-methyl ester  
CA Benzene acetic acid, 2-[(2,6-dichlorophenyl)amino]-, methyl ester  
IUPAC Methyl 2-((2,6-dichlorophenyl)amino)benzeneacetate  
Formula C<sub>15</sub>H<sub>13</sub>Cl<sub>2</sub>NO<sub>2</sub>  
Mol.Weight 310.17  
CAS No. 15307-78-5

## Reference Materials for Residue Analysis

Expiry Date 18.09.2021  
Lot Number 151666  
Store at 20 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

## Toxicological Data



R Code 23/24/25-40

S Code 36-22

LD50 (Rats female/male in mg/kg) 150

## Physical Data

Phase crystalline solid

Color colourless

Melt.Range 103.5 °C

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

## Analytical Data

Detection: GC/FID

Column: DB-5, 30 m, ID 0.25 mm

Inj.-Vol.: 1.00 µl

Flow: 1.0 ml/min

Ret.-Time: 20.24 min.

Method Details:

Injector: 280° C

Start Temperature: 60° C for 5 min

End Temperature: 280° C for 1 min

Gradient: 15° C/min

Identity: RT, EA, NMR

Comment

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 98.1 % Tolerance/Uncertainty +/- 1.0 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is  $U$  which is  $Uc(y) \cdot K$ , where  $K$  is the coverage factor at the 95% confidence level ( $K=2$ ). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

Certified on 18.09.2017

by N. Müller

The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

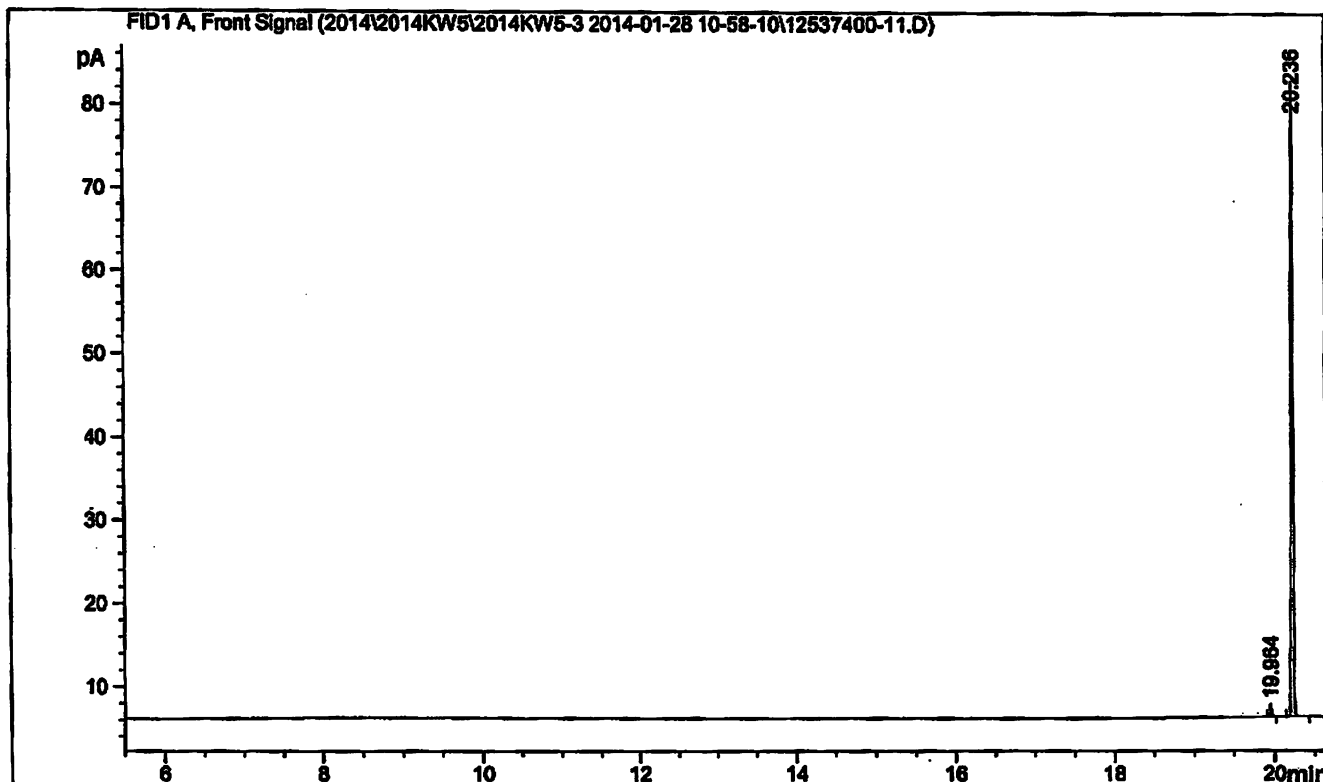
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Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com  
The warranty for this product is limited to the purchasing price of this product.

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Acq. Operator   : Dr. Heidrich           Seq. Line : 28
Acq. Instrument : GCFID2                 Location  : Vial 72
Injection Date  :                       Inj       : 1
                                           Inj Volume: 1 µl
Acq. Method     : C:\CHEM32\1\DATA\2014KW5\2014KW5-3 2014-01-28 10-58-10\PESK.M
Last changed    : 28.11.2012 09:59:49 by Dr. Heidrich
Analysis Method : C:\CHEM32\1\METHODS\PESK.M
Last changed    : 28.11.2012 09:59:49 by Dr. Heidrich
Method Info     : pesk

Sample Info     : Diclofenac-methyl ester
    
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**Area Percent Report**  
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Sorted By           :      Signal
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
    
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Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	19.964	BB	0.0238	2.32297	1.52681	1.87674
2	20.236	BB	0.0255	121.45379	76.50845	98.12326

Totals :                      123.77676    78.03525

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