

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

14231500 2-Hydroxydiphenylmethane (2-Benzylphenol)

CA 2-(Phenylmethyl)phenol

IUPAC 2-Hydroxydiphenylmethane

Formula C<sub>13</sub>H<sub>12</sub>O

Mol.Weight 184.23

CAS No. 28994-41-4

## Reference Materials for Residue Analysis

Expiry Date 06.10.2020

Lot Number 163649

Store at 20 °C ±4 °C

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

## Toxicological Data



R Code 36/37/38

S Code 22-25-36

LD50 (Rats female/male in mg/kg) N/A

## Physical Data

Phase crystalline solid

Color colourless

Melt.Range 51 °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: 16.40 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

Comment

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 99.0 % Tolerance/Uncertainty +/- 0.5 %

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 27.11.2017

by D. Schmid

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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The warranty for this product is limited to the purchasing price of this product.

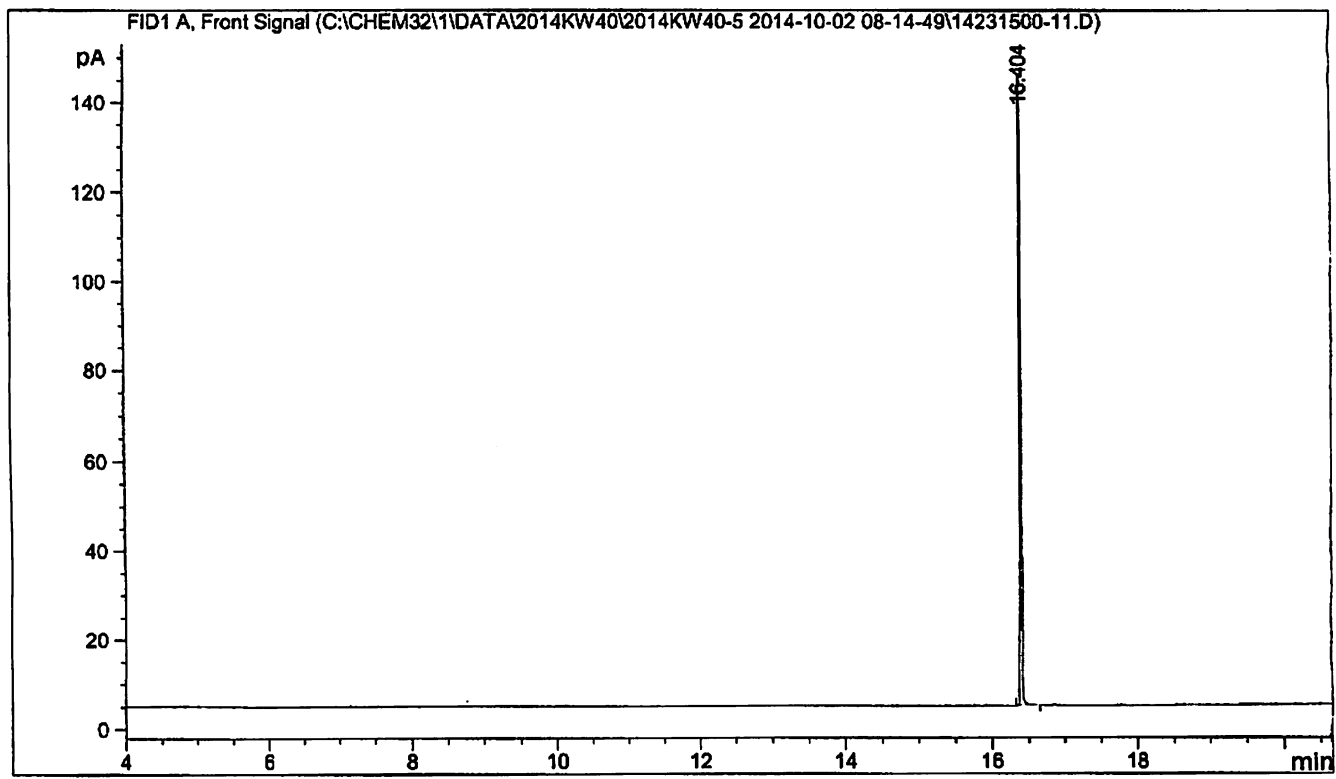
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Acq. Operator   : Dr. Heidrich           Seq. Line :    6
Acq. Instrument : GCFID2                 Location  : Vial 74
Injection Date  : 02.10.2014 13:53:19    Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method    : C:\CHEM32\1\DATA\2014KW40\2014KW40-5 2014-10-02 08-14-49\PESK.M
Last changed   : 28.11.2012 09:59:49 by Dr. Heidrich
Analysis Method : V:\FID1\METHODS\PESK.M
Last changed   : 06.10.2014 09:00:49
                (modified after loading)

Method Info    : pesk

Sample Info    : 2-Hydroxydiphenylmethane
    
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**Area Percent Report**  
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Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
    
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*Schmid D*

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	16.404	1	BB	191.05833	140.28835	100.0000

Totals :                    191.05833   140.28835

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 \*\*\* End of Report \*\*\*