

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

10949000 Capsaicin

CA 6-Nonenamide, N-[(4-hydroxy-3-methoxyphenyl) methyl]-8-methyl-, (6E)-

IUPAC 8-Methyl-N-vanillyl-trans-6-nonenamide

Formula C₁₈H₂₇NO₃

Mol. Weight 305.41

CAS No. 404-86-4

Expiry Date 13.06.2020

Lot Number 175459

Store at -18 °C ±4 °C

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

Toxicological Data



R Code 25-37/38-41-42/43

S Code 22-25-36-46

LD50 (Rats female/male in mg/kg) 161

Physical Data

Phase crystalline solid

Color colourless

Melt. Range

Vapour pressure NA at °C

Solubility in water NA g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column:

Inj.-Vol.: 10.00 µl

Flow: 0.5 ml/min

Ret.-Time: 28.51 min.

Method Details:

Eluent A: Acetonitrile:H₂O+0,5% H₃PO₄ 1:4 for 2 minEluent B: Acetonitrile:H₂O+0,5% H₃PO₄ 4:1 for 6 min

Eluent A -> Eluent B: 28 min

Identity: RT, UV, MS, NMR

Comment Purity was determined by chromatographic assay.

Contains about 28% Dihydrocapsaicin.

Color is yellowish due to Dihydrocapsaicin as impurity.

Column: Phenomenex Synergy POLAR-RP 4 µm 250 x 4.60 mm

Water Content Determined by Karl-Fischer Titration

Det. Purity 60.0 % Tolerance/Uncertainty +/- 2.0 %

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 U_c(y)*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 13.06.2018

by M. Beck

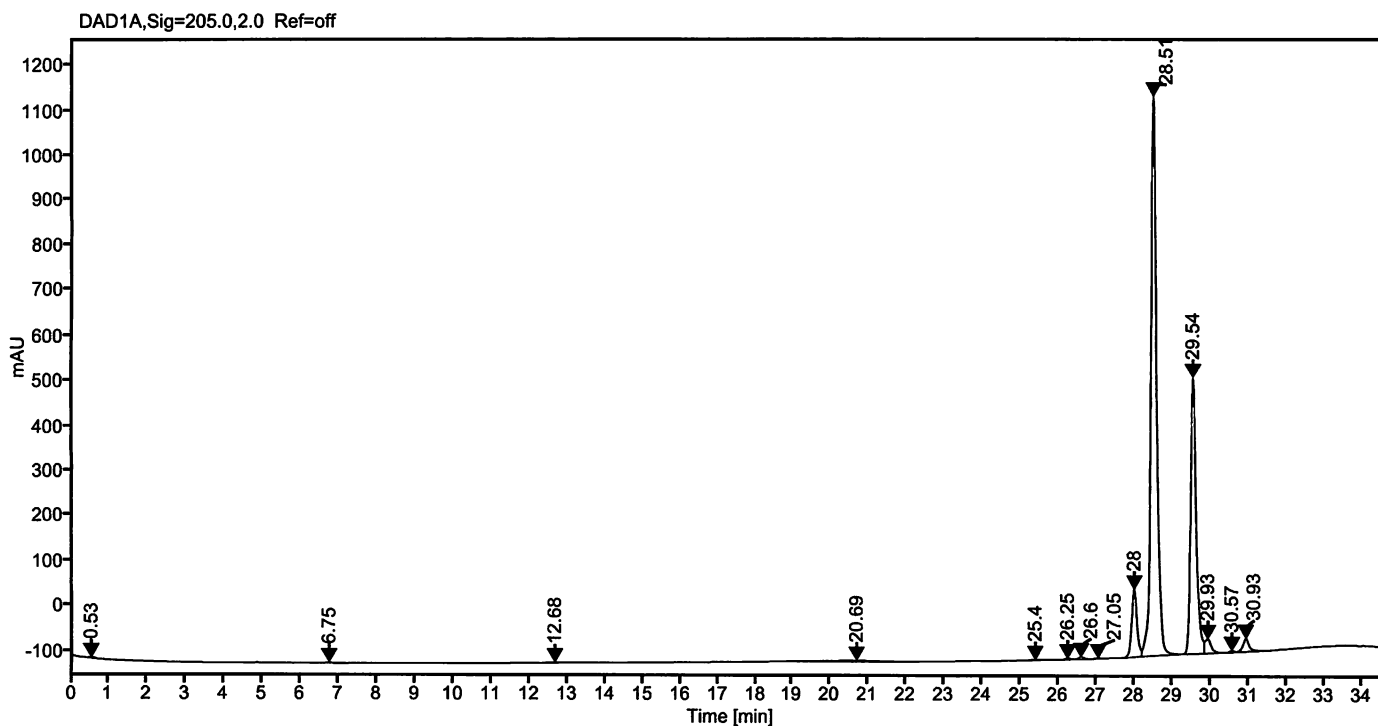
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

12/12/18

Data file: 10949000-03-r002.dx Instrument: DAD4
Sample name: 80611AL 175459 Sequence Name: 12062018-Synergy
Inj. volume [µl]: 10.0 Injection date: 6/12/2018 1:36:38 PM
Acq. method: PES1P_S2.amx Location: 22

Sample Description Capsaicin
Column: Phenomenex Synergy POLAR-RP 4 µm 250 x 4.60 mm



Signal: DAD1A,Sig=205.0,2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	0.53	16.43810	1.59	0.08
2	6.75	17.52612	2.17	0.08
3	12.68	33.41212	1.20	0.15
4	20.69	211.30049	2.32	0.97
5	25.40	14.06112	0.91	0.06
6	26.25	22.50704	2.63	0.10
7	26.60	45.56352	5.01	0.21
8	27.05	11.90200	1.30	0.05
9	28.00	1470.41115	149.59	6.74
10	28.51	13102.53658	1239.47	60.07
11	29.54	6139.87313	610.20	28.15
12	29.93	359.78283	32.05	1.65
13	30.57	33.84536	3.85	0.16
14	30.93	332.28117	28.82	1.52
Sum		21811.44		

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