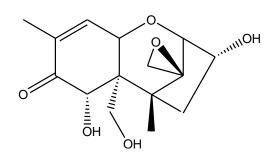


## **Deoxynivalenol Standard (solid)**

Order-No: CH-02-S1

Lot: xxx xxx xxx xxx





Analyte: Deoxynivalenol (DON)

## Specification:

Substance: Deoxynivalenol

> Source: Fusarium spec.

Empirical Formula:  $C_{15}H_{20}O_6$ 

> Appearance: White with faint yellow powder

10mg/ ml Methanol/ ETOAC: Clear colorless solution, Solubility:

may be soluble in other solvents

155°C Melting point:

Molecular Weight: 296,32

> TLC, detection: spray with H<sub>2</sub>SO<sub>4</sub> and heat; Approved:

TLC (NP, CH<sub>2</sub>Cl<sub>2</sub>, Methanol 95:5) > 99%
TLC (NP, Toluene, Ethyl acetate 1:3) >99%
TLC (RP C18, Methanol, H<sub>2</sub>O 9:1) >99%

HPLC (RP C18, CH<sub>3</sub>CN: H<sub>2</sub>O 0%=>100% in 20 min, 220nm)

>99.72%

CAS-No.: 51481-10-8

Weight: 1,0 mg

Expiry date: 1 year after delivery

Storage conditions: -20 °C

> Certification: The calibrant is certified on the basis of gravimetric preparation.

> > Values are based on weight amount and purity.

Uncertainty < 0,03 mg in accordance with ISO Guide 31, ISO Guide

35 and Eurachem/CITAG Guides.

Subject to change without notice.



Danger

## Calculation of uncertainty:

(After the concentration of the gravimetric prepared solution was confirmed by kinetic fluorescent polarization, the uncertainty of the calibrant solution was calculated on the basis of preparation) Calculation of the combined uncertainty  $u_{\text{\tiny C}}$  and the expanded standard uncertainty U:

Uncertainty components	Description	Standard uncertaint (u)	у
Purity (P) of solid Dexynivalenol	P = 99.72% ± 0.6%	u(P) = 0.4%	а
Weighing procedure weighted sample: m <sub>ws</sub> = 1.0 mg	repeatability: 0.03 mg linearity: 0.01 mg	u(m) = 0.03 mg	b

 $<sup>^</sup>a$  Maximum tolerance of purity (rectangular distribution) was divided by  $\sqrt{3}$   $^b$  Estimation of this u-value is based upon the values for repeatability and

Calculation of the combined uncertainty  $u_c$  and the expanded standard uncertainty U:

$$\frac{u_{c}\left(c_{toxin}\right)}{c_{toxin}} = \sqrt{\left[\frac{u\left(P\right)}{P}\right]^{2} + \left[\frac{u\left(m\right)}{m_{ws}}\right]^{2}} = \sqrt{\left[\frac{0.4}{99.72}\right]^{2} + \left[\frac{0.03}{1.0}\right]^{2}} = 0.02997$$

linearity described in the user manual of the microbalance

## Danger

Contains: Deoxynivalenol

Weight: 1 mg

Fatal if swallowed

Wash ... thoroughly after handling

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

lenses, if present and easy to do. Continue rinsing.

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H300 P264

P301 + P310

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