

Certificate of
Instrument Testing

Certificate-No.: 2018 04 12728

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ATOMIZER AEROSOL GENERATOR ATM 226

Serial no.: 226 18 04 449

Identification: /

Nozzle no.: 1898

Protective grounding



Functional test at 100VAC



Measured data

Pressure for opening the safety valve: 0.46 bar

Check of aerosol specification at 22SKT (250l/h)	Mean particle size μm	Number concentration Particle/cm ³	Volumetric flow rate l/min
Upper limit:	1.0	$1.8 \cdot 10^7$	4.4
Measured value **)	1.0	$0.83 \cdot 10^7$	4.4
Lower limit	0.8	$0.8 \cdot 10^7$	3.9

Measurements of the aerosol concentration were made by using an aerosol monitor. The noted values are significant quality parameters. By realising the limits, the aerosol specifications which are shown at next page are guaranteed.

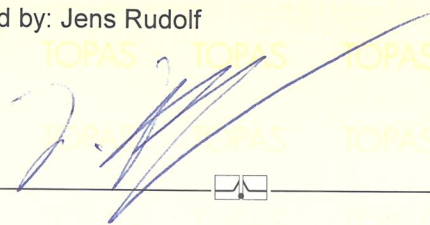
Following measuring instruments were used

Type	Manufacturer	Identification	last calibration	Certificate number	next calibration
Laminar flow meter FCO96 F-30L	Furness Controls	0109306 / -305	03/2016	DFCG11712	04/2018
Protective earth tester Metratester 5+	Gossen Metrawatt	M700DTL1845	05/2017	2017-3751	05/2018
Pressure indicator 0...1.0bar	WIKA				
Process aerosol monitor PAM 510	Topas	510 94 01 302	05/2017	---	05/2018

The instrument is built and tested to conform to the high quality standards of Topas GmbH. The manufacturer guarantees that the instrument fulfils the technical specification as defined in the instruction manual.

Dresden, 2018-04-05

tested by: Jens Rudolf

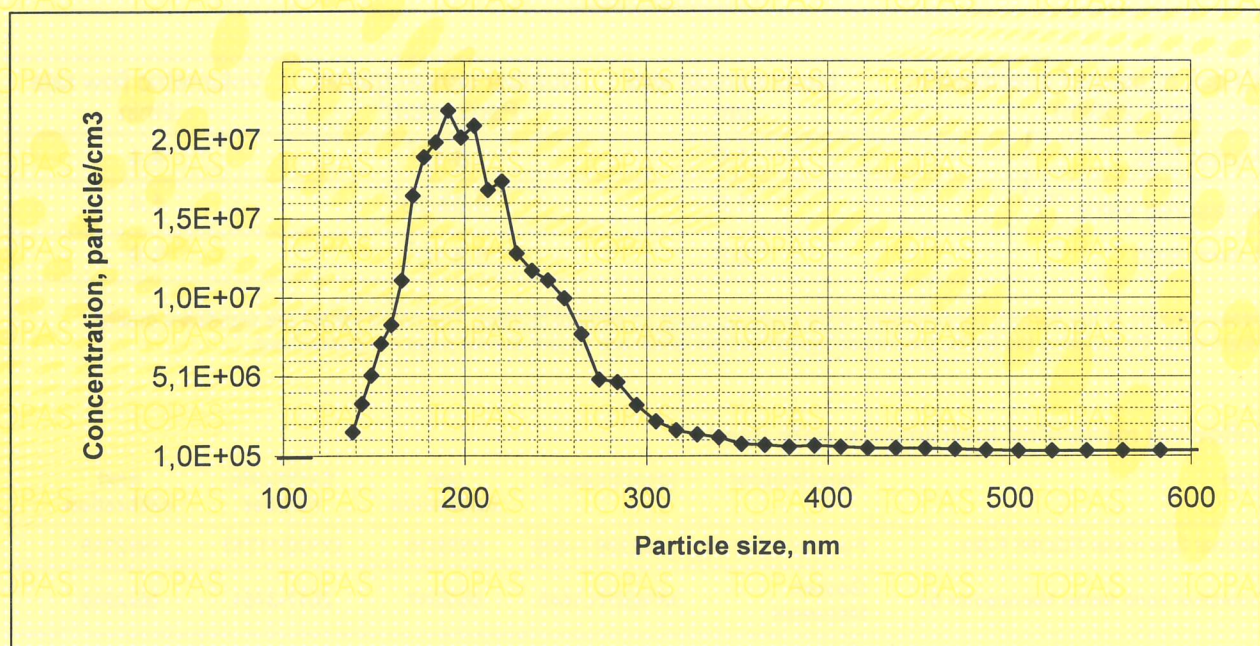


Topas GmbH
Technologie-orientierte Partikel-,
Analyse- und Sensortechnik
Oskar-Röder-Straße 12
01237 Dresden
GERMANY
Tel. + 49 (351) 21 66 43-0
Fax + 49 (351) 21 66 43-55

Specification of the DEHS-Aerosol

Number concentration

Table	Particle/cm ³	Particle/cf
Total number concentration	$>10^8$	$2,8 \cdot 10^{12}$
Number concentration (Size 0,3 up to 0,5 μ m):	$1,5 \cdot 10^7$	$4,2 \cdot 10^{11}$
Number concentration (Size 0,5 up to 1,0 μ m):	$8 \cdot 10^6$	$2,3 \cdot 10^{11}$



Particle size distribution of a DEHS aerosol measured by a Scanning Mobility Particle Sizer (TSI, Inc.)

