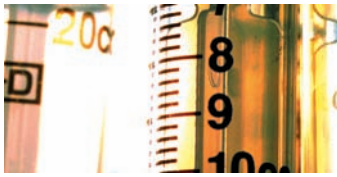
40 YEARS ANALYTICAL SOLUTIONS GERSTEL

GERSTEL

Thermo Extractor TE 2

for preparing samples for thermal desorption



Four good reasons why you should choose the GERSTEL TE 2:

1. **Greater sample capacity compared to TDS tubes**
2. **Accomodates wet samples**
3. **Simplified extraction**
4. **Saves analysis time**

- ***Lower detection limits***
- ***Even liquid samples can be processed***
- ***Capable of simultaneous matrix and water removal***
- ***Off-line operation doesn't interfere with TDS analysis***

GERSTEL Thermo Extractor TE 2

High water content, physical sample size, and low concentration of analytes can hinder thermal desorption/GC analysis of volatile compounds of interest such as fragrances, off-odors and reaction products. The GERSTEL Thermo-Extractor (TE 2) eliminates this problem by concentrating the analytes on a standard TDS adsorbent tube while eliminating water and leaving the matrix behind.

In the sample preparation stage, a solid, gelatinous or liquid sample is placed in the TE tube which is then heated to the desired temperature (typically 30 °C to 100 °C) while an adjustable flow of inert gas is passed through the TE tube.

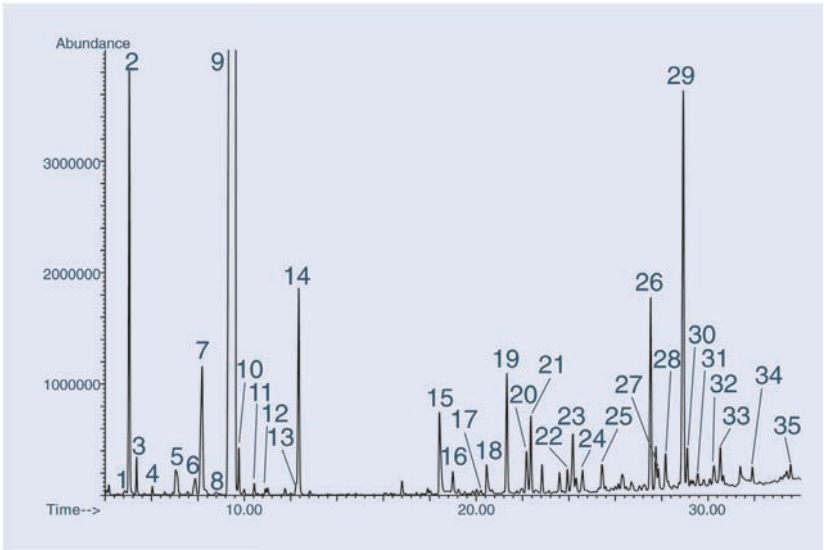
The inert gas flowing around the hot sample extracts the water and the volatile components, which are then trapped on the Tenax bed of a standard TDS tube. The water is eliminated by »dry purging« the Tenax tube. The tube is then removed and placed in a TDS 2.

The Tenax tube is analyzed using the GERSTEL thermal desorption technique of refocusing compounds in the Cooled Injection System CIS, and then introducing them as a narrow band onto the GC column for separation.

Technical specifications

Width	100 mm
Depth	250 mm
Height	100 mm
Weight	1,2 kg
Power consumption	160 W

1 a-Pinene
2 Ethyl Butyrate
3 Ethyl-2-Methyl Butyrate
4 Hexanal
5 Sabinene
6 d-3-Carene
7 Myrcene
8 a-Terpinene
9 Limonene
10 b-Phellandrene
11 Ethyl Caproate
12 g-Terpinene
13 a-Terpinolene
14 Acetoine
15 Acetic Acid
16 Furfural
17 a-Copaene
18 Formic Acid
19 Ethyl-3-Hydroxy Butyrate
20 2,3-Butanediol
21 Linalool
22 Hexadecane
23 1,2-Propanediol
24 Terpinene-4-ol
25 Butyric Acid
26 Ethyl-3-Hydroxy Hexanoate
27 b-Selinene
28 a-Terpineol
29 Valencene
30 a-Selinene
31 Carvone
32 d-Cardinene
33 7-epi-a-Selinene
34 Nerol
35 Geraniol



Fresh squeezed orange juice
Sample preparation using GERSTEL Thermo Extractor TE followed by thermodesorption.

ZERTIFIZIERTES QM-SYSTEM NISZERT GERSTEL ISO 9001:2000 ZERTIFIKAT NR. 0086/0

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