

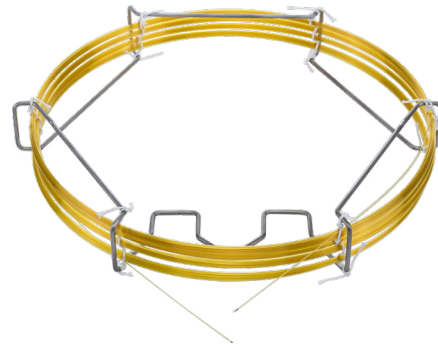
# MACHEREY-NAGEL OPTIMA<sup>®</sup> 5 HT

Chromatography



Your GC solution for high temperature analysis

- Lowest bleeding
- Optimal deactivation
- Highest temperature stability

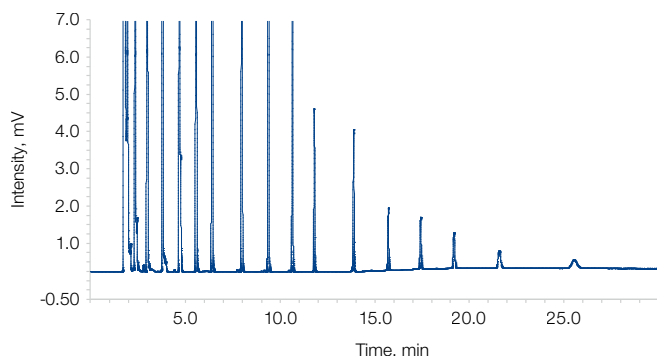


**MACHEREY-NAGEL**

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### Application Nr. 213440: Simulated Distillation acc. ASTM method D 2887

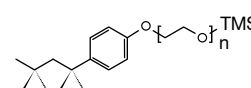
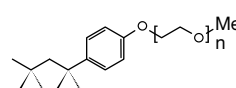
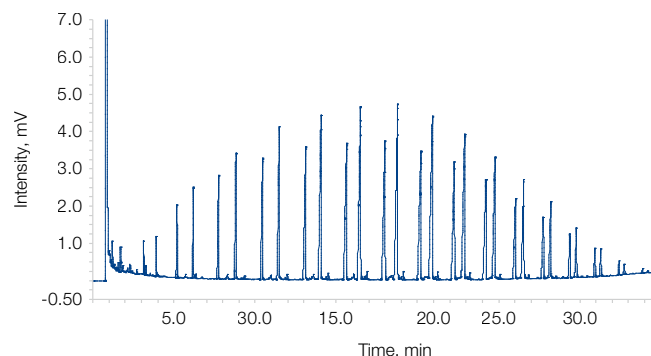


Peaks:

1. Hexane, 2. Heptane, 3. Octane, 4. Nonane, 5. Decane, 6. Undecane, 7. Dodecane, 8. Tetradecan, 9. Hexadecane, 10. Octadecane, 11. Eicosane, 12. Tetracosane, 13. Octacosane, 14. Dotriacontane, 15. Hexatriacontane, 16. Tetracontane, 17. Tetrattetracontane

Conditions	OPTIMA® 5 HT, 15 m, 0.32 mm ID, 0.25 µm (REF 726108.15)
Sample	ASTM D 2887 calibration mix in pentane
Injection	1.0 µL, splitless, cold on column injection
Gas	Helium, 0.6 bar
Temperature	35 °C – 360 °C (15 °C/min.) (5 min.)
Detector	FID, 280 °C

### Application Nr. 213450: Triton test (Methyl- and TMS-ether)



Conditions	OPTIMA® 5 HT, 15 m, 0.25 mm ID, 0.1 µm (REF 726102.15)
Sample	Triton-Methyl and -TMS ether ( <i>p</i> -tert-Octylphenol-derivates with polyethylene glycol-chains)
Injection	1.0 µL, split 1:40
Inj. temp.	350 °C
Gas	Hydrogen, 0.8 bar
Temperature	200 °C – 400 °C (6 °C/min.) (20 min.)
Detector	FID, 380 °C

## Order information

REF	Length [mm]	ID [mm]	Film thickness [mm]
726102.15	15	0.25	0.10
726102.30	30	0.25	0.10
726104.15	15	0.32	0.10
726104.30	30	0.32	0.10
726106.15	15	0.25	0.25
726106.30	30	0.25	0.25
726108.15	15	0.32	0.32
726108.30	30	3.32	0.32

### Key feature

- Max. temperature 380 °C or isothermal runs: 400 °C
- Low bleed column, non polar, ideal for MS detectors, can be rinsed with solvents
- Application area: for simulated distillation, hydrocarbon-, fuel-, oil-analysis high boiling analytes
- Chemically bonded, cross-linked silarylene phase, polarity index according to 5% Phenyl/95% Methyl-Polysiloxane
- Similar phases: DB-5HT, VF-5HT, HT-5, XTI-5HT, ZB-5HT
- USP G 27 / G 36

### Good to know

The MACHEREY-NAGEL application database provides over 3000 chromatography applications examples from HPLC, GC, TLC and SPE and is freely accessible:



[chromaAppDB.mn-net.com](http://chromaAppDB.mn-net.com)



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