

MEGA[®]

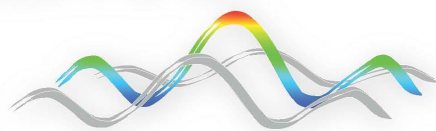
improve your GC analysis

CUSTOM
DEDICATED
COLUMNS

GC-MS
columns

dex xeb
chiral columns

mega^{2D}
columns



FAST-GC
solutions

MegaHT
High Temperature Columns

general purpose

GC products
2014

since
1980

CHROMalytic ^{+61(0)3 9762 2034}
ECHnology Pty Ltd

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MEGA since - Capillary Columns Laboratory - Via F.lli IMI, 27 - 20020 Legnano (MI) - Italy

 follow us @MEGAColumns



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Since 1980 we offer:

- the most complete range of stationary phases for Conventional-GC, FAST-GC, Wide Bore GC, Chiral-GC, GC-MS
- special and innovative products for Multidimensional-GC (including GCxGC), High Temperature GC and more
- unsurpassed Quality, Efficiency and Inertness, we produce and test each column one-by-one to assure a perfect column-to-column reproducibility
- custom products by request with no additional cost
- support and services for your GC analysis

our experience in Gas Chromatography at Your service

GC Columns Dimensions Available

FAST	I.D.	0.05 mm	0.075 mm	0.10 mm	0.15mm
	Length	from 2 to 5 m	from 2 to 8 m	from 2 to 15 m	from 2.5 to 30 m
	FilmThickness *	from 0.05 to 0.25 μm	from 0.05 to 0.50 μm	from 0.05 to 1.00 μm	from 0.05 to 1.40 μm

CONVENTIONAL	I.D.	0.18 mm	0.20 mm	0.25 mm	0.32mm
	Length	from 5 to 60 m	from 5 to 60 m	from 5 to 100 m	from 5 to 100 m
	FilmThickness *	from 0.05 to 1.50 μm	from 0.05 to 1.50 μm	from 0.05 to 3.00 μm	from 0.05 to 5.00 μm

WIDE BORE	I.D.	0.45 mm	0.53 mm
	Length	from 10 to 75 m	from 10 to 75 m
	FilmThickness *	up to 5.00 μm	up to 5.00 μm

Completely customize your product, selecting all combinations of sizes and also asking for out-of-catalog configurations. Since 1980 we develop ad-hoc solutions for your specific analytical problem. We are able to even tune the selectivity of the stationary phase to respond to particular exigences.

All our stationary phases are available for FAST, Conventional, Wide-Bore and Multidimensional-GC (including GCxGC solutions). Discover moreover our MEGA-DEX chiral columns, our MEGA-HT High Temperature columns and other unique and special products.

New Products Highlight



MEGA-WAX HT column, an unique **PEG stationary phase** able to reach up to **300°C** even in isothermal mode. Especially developed for FAST-GC and GCxGC use. The performances of the MEGA-WAX HT have appeared on LCGC Europe Journal with GCxGC application notes. Click here to go to the webpage that includes the MEGA-WAX HT free literature.



MEGA-5 MS Xil column, a new GC-MS silphenylene-based phase that assures **ultra-low bleeding and unsurpassed inertness and efficiency** for your GC-MS analysis. Click here to open and download free technical literature of the new MEGA-5 MS Xil column.



MEGA-2D single column, a revolutionary **unique tubing column coated with two in series different stationary phases** for GCxGC and MDGC applications. No connections are needed. Contact us to have more information and discover all the advantages of the MEGA-2D technology also applied to conventional-GC.



FAST Chiral MEGA-DEX columns line; today you can speed up your chiral GC separations with **the most complete line of FAST-GC chiral columns**. Contact us to have more info and application notes.

Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-1 100% methyl polysiloxane	350°C	DB-1, HP-1, AT-1, ZB-1, 007-1, Rtx-1, BP-1, SPB-1, CP Sil 5 CB	EPA: 504.1, 505, 551, 606, 612, 8141A/B, etc.** USP: G1, G2, G9, G38	General purpose column. Solvent impurities, PCBs, simulated distillation, drugs, gases, natural gases, essential oils, semivolatiles, pesticides, phenols, etc.
MEGA-5 5% phenyl, 95% methyl polysiloxane	350°C	DB-5, HP-5, AT-5, ZB-5, 007-5, Rtx-5, BP-5, SPB-5, CP Sil 8 CB	EPA: 506, 611, 604, 607, 608, 8015, 8041, 8082, 8091, etc.** USP: G27, G36, G41	General purpose column. Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, pesticides, etc.
MEGA-SE52 5% phenyl, 95% methyl polysiloxane	350°C	SE52	USP: G27, G36, G41	General purpose column. Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, triglycerides, pesticides, poly-waxes, etc.
MEGA-SE54 5% phenyl, 1% vinyl, 94% methyl polysiloxane	350°C	SE54	-	General purpose column. Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, allergens, pesticides, etc.
MEGA-1701 14% cyanopropylphenyl, 86% methyl polysiloxane	280°C	DB-1701, HP-1701, AT-1701, ZB-1701, 007-1701, Rtx-1701, BP-10, SPB-1701, CP Sil 19 CB	EPA: 513, 515.2, 552.2, 607, 619, 622, 8091, 8121, etc.** USP: G46	General purpose column. Residual solvents, PCBs, alcohols, oxygenates, pesticides, etc. Ideal as confirmation column and GCxGC use.
MEGA-17 50% phenyl, 50% methyl polysiloxane	340°C	DB-17, DB-608, HP-17, AT-50, ZB-50, 007-17, Rtx-17, BPX-50, SPB-50, CP Sil 24 CB	EPA: 604, 608, 619, 8060, 8081 USP: G3, G17	General purpose column. Phthalate esters, herbicides, pharmaceuticals, etc. Ideal as confirmation column and GCxGC use.
MEGA-WAX polyethylene glycol (PEG)	250°C	DB-Wax, HP-Wax, InnoWax AT-Wax, ZB-Wax, 007-CW, Rtx-Wax, BP-20, CP Wax 52 CB	EPA: 602, 603, 619, 8015C USP 467 (OVIs), etc. ** USP: G14, G15, G16, etc.	General purpose column. FAMEs, flavor compounds, essential oils, BTEX aromatics, solvents, alcohols, etc. Tune your Wax column polarity! Ask us for more info.
MEGA-1 MS low bleeding 100% methyl polysiloxane	350°C	DB-1 ms (UI), HP-1 ms, ZB-1 ms, Rtx-1 ms, BPX-1, Equity-1, CP Sil 5 CB ms	EPA: 504.1, 505, 606, etc.** USP: G1, G2, G9, G38	General purpose column for GC-MS use. See MEGA-1 phase.
MEGA-5 MS low bleeding 5% phenyl, 95% methyl polysiloxane	350°C	DB-5 ms (UI), HP-5 ms, AT-5 ms, ZB-5 ms, 007-5 ms, Rtx-5 ms, BPX-5, Equity-5	EPA: 513, 528, 552, 610, 613 1625, 8100, 8141A/B, etc.** USP: G27, G36, G41	General purpose column for GC-MS use. See MEGA-5 phase.

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*: the temperature range may change depending on the column length and internal diameter.
**: download on our website a more complete list of EPA and USP methods on the basis of EPA methods, USP requirements.

Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-5 MS XiI low bleeding silphenylene based MS phase	350°C	DB-5 ms (UI), Rtx-5 ms Sil, SLB-5 ms new column	EPA: 515, 521, 529, 552, 604, 610, 625, 1613, 1625, etc. ** USP: G27, G36, G41	General purpose column for GC-MS use. Dioxins and furans, herbicides, phthalate esters POCs, chlorinated acids, etc.
MEGA-35 MS low bleeding 35% phenyl, 65% methyl polysiloxane	340°C	DB-35 ms, BPX-35, BPX-608, MR2, Rtx-35 Sil ms	EPA: 507, 508, 552, 614, 615, 622, etc. ** USP: G28, G32, G42	General purpose column for GC-MS use. See MEGA-35 phase.
MEGA-17 MS low bleeding 50% phenyl, 50% methyl polysiloxane	340°C	DB-17 ms, Rtx-17 Sil ms	EPA: 505, 610, 619, 614, 8040, 8041, etc. ** USP: G3, G17	General purpose column for GC-MS use. See MEGA-17 phase.
MEGA-225 MS low bleeding 25% cyanopropyl, 25% phenyl, 50% methyl polysiloxane	260°C	unique column	EPA: 8095 USP: G7, G19	General purpose column for GC-MS use. See MEGA-225 phase.
MEGA-WAX MS low bleeding polyethylene glycol (PEG)	250°C	Stabilwax, ZB-Wax Plus, InnoWax, VF-Wax ms	EPA: 602, 603, 619, 8015C, 8121, etc. ** USP: G14, G15, G16 etc.	General purpose column for GC-MS use. See MEGA-WAX phase.
MEGA-10 100% cyanopropyl polysiloxane	260°C	HP-88, AT-Silar, Silar 10 Rtx-2560, SP-2560 BPX-70, CP Sil 88	EPA: 613, 1613, 8290B USP: G5, G8, G48	High polarity column ideal for <i>cis/trans</i> FAMES and dioxins isomers analysis.
MEGA-101 100% methyl polysiloxane	350°C	OV-101	USP: G1, G2, G9, G38	General purpose apolar column.
MEGA-13 13% phenyl, 87% methyl polysiloxane	340°C	CP Sil 13 CB	EPA: 601, 602, 624	General purpose column, ideal as confirmation column.
MEGA-20 20% phenyl, 80% methyl polysiloxane	340°C	AT-20, 007-7, Rtx-20, SPB-20	USP: G28, G32	General purpose column, ideal as confirmation column.

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Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-200 trifluoropropyl methyl polysiloxane	300°C	DB-200, DB-210, AT-210 007-210, Rtx-200, SP-2401, VF-200 ms	EPA: 551, 612, 625, 8095, etc.** USP: G6	Unique selectivity column. Freon fluorocarbons, ketones, alcohols, organophosphorus pesticides, etc.
MEGA-225 25% cyanopropyl, 25% phenyl, 50% methyl polysiloxane	260°C	DB-225, HP-225, AT-225, 007-225, Rtx-225, BP-225, CP Sil 43 CB	EPA: 8095 USP: G7, G19	Mid-to-high polarity phase. Carbohydrates, sterols, flavor compounds, etc.
MEGA-35 35% phenyl, 65% methyl polysiloxane	340°C	DB-35, HP-35, AT-35, ZB-35, 007-11, MR2 Rtx-35, SPB-35, SPB-608	EPA: 507, 508, 513, 551.1, 615, 622, etc.** USP: G28, G32, G42	General purpose column. Pesticides, PCBs, substituted polar compounds, phenols, etc. Ideal as confirmation column.
MEGA-50 50% cyanopropyl, 50% methyl polysiloxane	260°C	DB-23, Silar 5, Rtx-2330, SP-2330	USP: G8	Mid-to-high polarity phase. Carbohydrates, sterols, FAMES, flavor compounds, etc. Confirmation column.
MEGA-624 6% cyanopropylphenyl, 94% methyl polysiloxane	280°C	DB-624, HP-624, AT-624, ZB-624, 007-624, Rtx-624, Vocol, SPB-624, VF-624 ms	EPA: 501.3, 502.1, 502.2, 601, 624, 1624, 8020, 8021, etc.** USP: G43, 467 (OVIs)	General purpose column. Ideal for volatile organic pollutants, purgeable aromatics, purgeable hydrocarbons, VOCs, etc.
MEGA-ACID FFAP acid modified polyethylene glycol (PEG)	250°C	DB-FFAP, AT-1000, 007-FFAP, Stabilwax-DA, BP-21, SPB-1000 Nukol, CP Wax 58 CB	EPA: 8032 USP: G14, G15, G16, G25, G35, G39	General purpose column. Ideal for free acids, FAMES, BTEX aromatics, flavor compounds, alcohols, spirits, polar compounds, etc.
MEGA-ALC 1&2 proprietary phases	n.d.	DB-ALC 1&2, Rtx-BAC 1&2	-	Application-specific columns for blood alcohols testing.
MEGA-BASIC proprietary unique phase for basic compounds	n.d.	unique column	-	Application-specific column for basic compounds analysis (i.e. amines).
MEGA-BIODIESEL phases for biodiesel analysis	370°C (UNI EN ISO 14105)	-	UNI EN ISO 14105 (ASTM 6584), UNI EN ISO 14103	Application-specific columns for free and total glycerine (phase stable up to 370°C) and for FAMES in biodiesel analysis.

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 *: the temperature range may change depending on the column dimensions and flow rate.
 **: download on our website a more complete list of methods based on the basis of EPA methods, USP requirements and other standards.

Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-DAI 1&2 proprietary unique phases for Direct Aqueous Injections	n.d.	unique columns	-	Application-specific columns for the introduction of aqueous samples, thus minimizing preparation.
MEGA-JXR 100% methyl polysiloxane	350°C	no equivalent on the market	USP: G1, G2, G9, G38	General purpose apolar column.
MEGA-LAP proprietary unique phase for Lipid Analysis	370°C	unique column	-	Application-specific column for lipids, sterols and triglycerides analysis.
MEGA-PAH unique phase for Polycyclic Aromatic Hydrocarbons	340°C	unique column	EPA: 610, 8100	Application-specific column for polycyclic aromatic hydrocarbons.
MEGA-PLUS copolymer polyethylene glycol + methyl polysiloxane	n.d.	Agilent DX columns series	EPA: 505	Discover new selectivities! Choose also between MEGA-PLUS 25 (25% PEG), MEGA-PLUS 75 (75% PEG)...and others! Contact us! We can customize this phase as you need!
MEGA-POF 1&2 proprietary phases for pesticides, herbicides and insecticides	n.d.	new columns MRI (MEGA-POF 1)	EPA: 622	Application-specific columns developed for pesticides, herbicides, insecticides analysis etc.
MEGA-I PONA PDMS optimized for hydrocarbons analysis	350°C	DB-Petro, HP-Pona, Rtx-I Pona, Petrocol	-	Phase optimized for DHA (Detailed Hydrocarbons Analysis).
MEGA-PS255 1% vinyl, 99% methyl polysiloxane	350°C	no equivalent on the market	-	Phase that is extremely suitable for high film thickness columns to analyze solvents, alcohols, volatiles, etc.
MEGA-PS264 5.8% phenyl, 0.2% vinyl, 94% methyl polysiloxane	350°C	no equivalent on the market	-	Phase that is extremely suitable for high film thickness columns to analyze solvents, alcohols, volatiles, etc.

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Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-SE30 100% methyl polysiloxane	350°C	SE30	EPA: 504.1, 505, 606, 8141A USP: G1, G2, G9, G38	General purpose apolar column.
MEGA-SOLVE 1&2 proprietary unique phases for complex solvents mix analysis	n.d.	unique columns TCEP (MEGA-SOLVE 2)	-	Application-specific columns developed for complex solvents mixtures analysis. MEGA-SOLVE 2 is ideal for aromatics and oxygenates in gasoline.
MEGA-TNT unique phase	n.d.	unique column	EPA: 8091, 8095	Application-specific column for explosives analysis, nitroaromatics, nitramines, nitrate esters.
MEGA-VOC 1&2 proprietary phases for Volatile Organic Compounds	n.d.	new columns	-	Application-specific columns for volatile organic compounds (OVIs), solvents and purgeable compounds.
MEGA-DEX DAC beta	230°C		chiral-enantiomeric separations	Diacethyl TBS beta cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.
MEGA-DEX DAC gamma	230°C		chiral-enantiomeric separations	Diacethyl TBS gamma cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.
MEGA-DEX DET beta	230°C		chiral-enantiomeric separations	Diethyl TBS beta cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.
MEGA-DEX DET gamma	230°C		chiral-enantiomeric separations	Diethyl TBS gamma cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.
MEGA-DEX DMP beta	230°C		chiral-enantiomeric separations	Dimethyl-pentyl TBS beta cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.

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Stationary Phase	T max *	Equivalent to	EPA - USP - Methods **	Applications
MEGA-DEX DMT beta	230°C		chiral-enantiomeric separations	Dimethyl TBS beta cyclodextrin based column. See and download on our website the applications and the table with hundreds of chiral compounds separated on our MEGA-DEX columns.
MEGA-I HT 100% methyl polysiloxane for high temperature	380°C	high temperature column DB-I ht	-	High temperature general purpose column. See MEGA-I phase.
MEGA-17 HT high temperature 50% phenyl, 50% methyl polysiloxane	370°C	high temperature column DB-17 ht	-	High temperature general purpose column. See MEGA-17 phase.
MEGA-5 HT high temperature 5% phenyl, 95% methyl polysiloxane	380°C	high temperature column DB-5 ht	-	High temperature general purpose column. See MEGA-5 phase.
MEGA-SE54 HT high temperature 5% phenyl, 1% vinyl, 94% methyl polysiloxane	380°C	high temperature unique column	-	High temperature general purpose column. See MEGA-SE54 phase.
MEGA-WAX HT high temperature polyethyleneglycol (PEG)	300°C	high temperature unique column	-	High temperature unique PEG phase. Extend the temperature limits of your FAST-GC and GCxGC analysis while using a polar Wax phase!

FAST-GC
solutions

All our stationary phases are available for FAST-GC. Contact us to have more details. You can download on mega.mi.it our free guide to FAST-GC with a tons of application notes!

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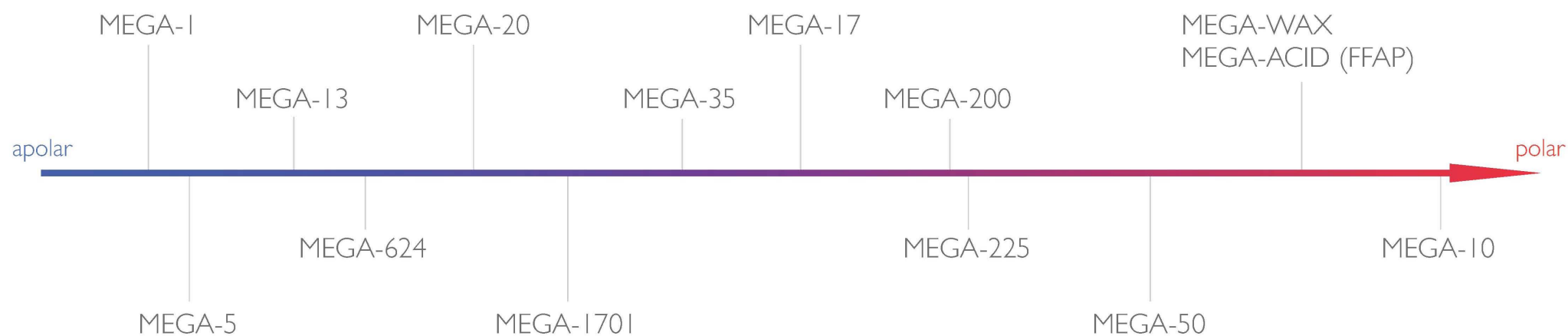


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Common Phases Polarity Quick View

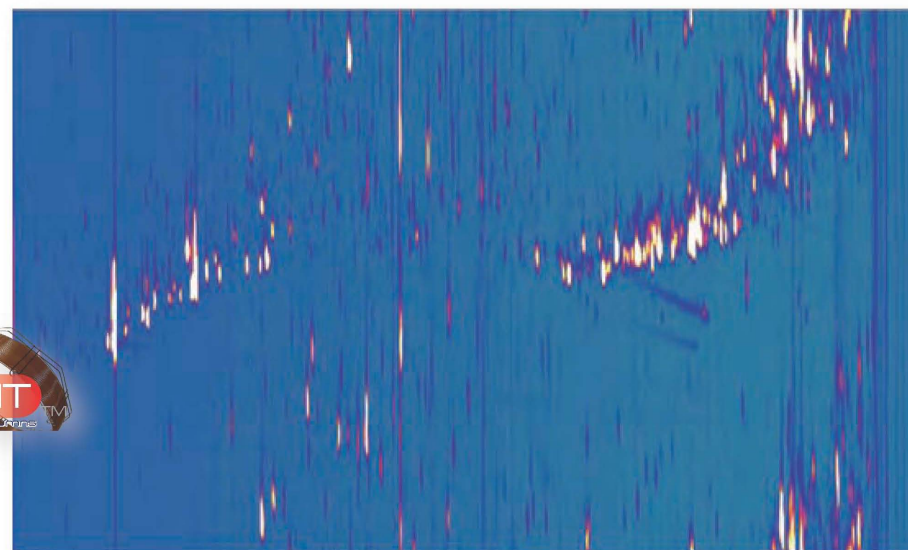


GCxGC Solutions

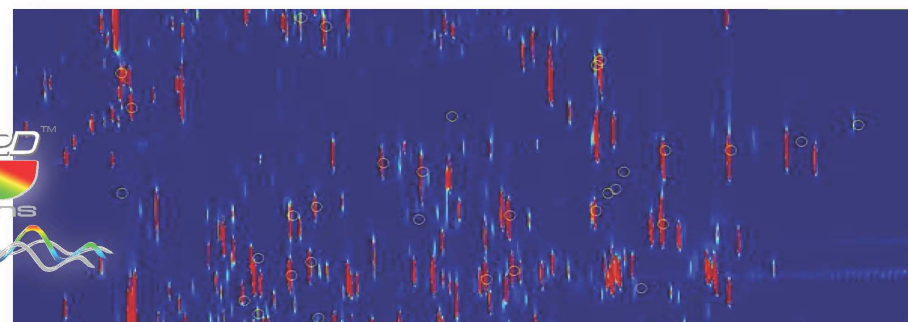
MEGA offers unique and innovative products for your GCxGC analysis.

We can provide completely custom GCxGC solutions, including ready-to-use kits.

Selectivity of the stationary phase plays a fundamental role in GC and this is even more important in GCxGC. Ask us to tune the selectivity of the stationary phase thus to explore new and unique solutions and to optimize the orthogonality and the efficiency of your GCxGC system.

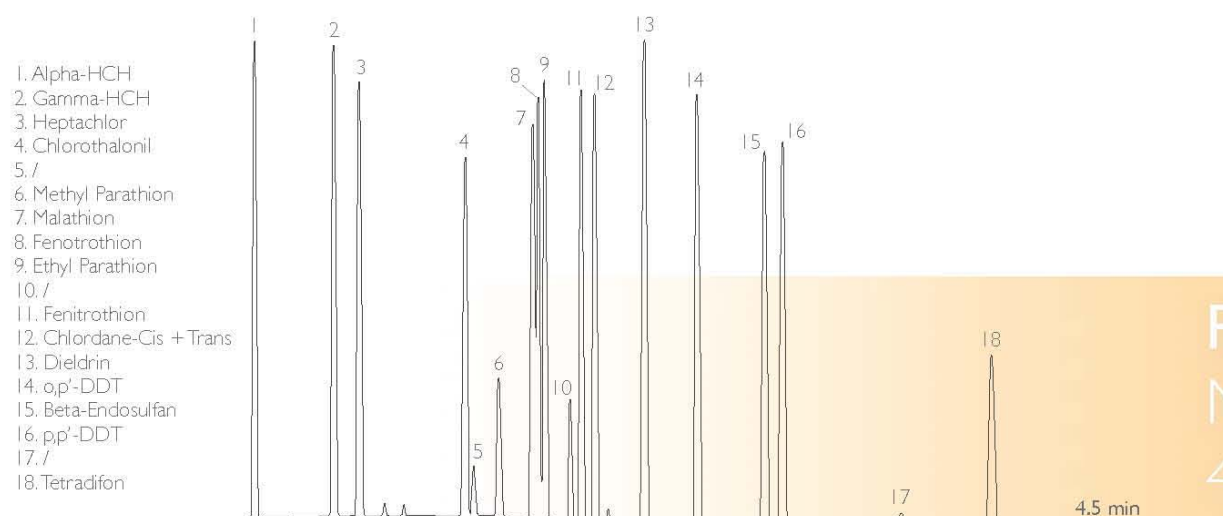


Kunzea essential oil GCxGC analysis using MEGA-WAX HT on 2nd dimension. Courtesy of R. Shellie et al.



Application Notes *

FAST-GC
solutions

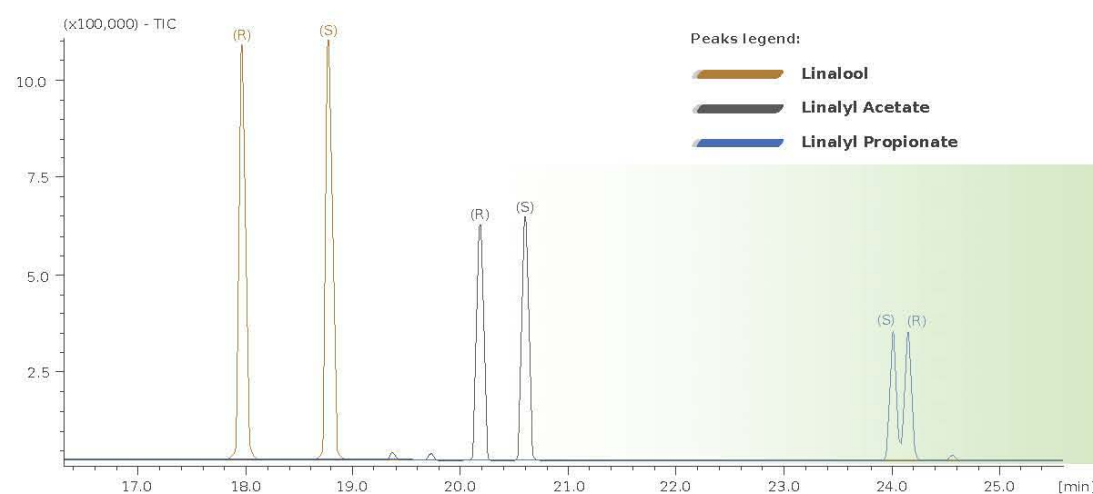
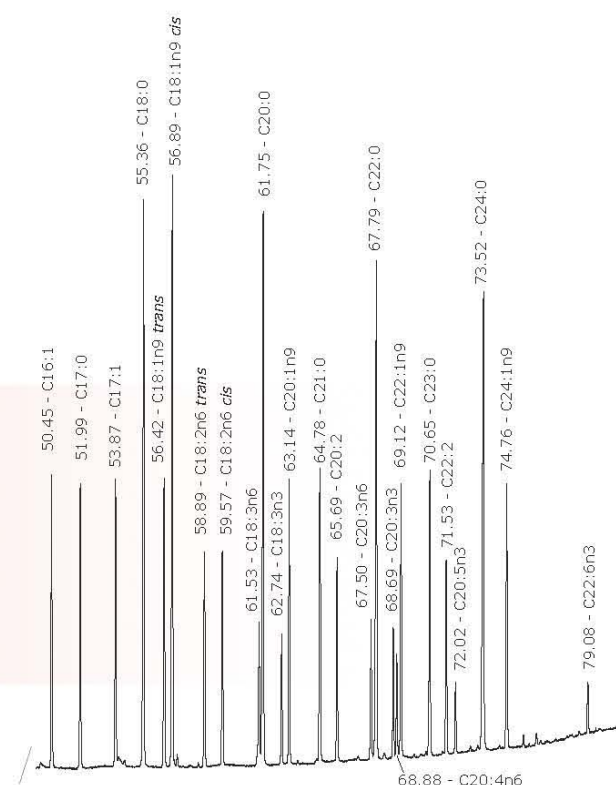


Pesticides mix on
MEGA-1701 FAST column
4.5 min analysis time only

Courtesy of University of Torino - Prof. C. Bicchi et al.

CUSTOM
DEDICATED
COLUMNS

cis/trans FAMES isomers
on MEGA-10 column



dex xeb
chiral columns

Linalool - Linalyl Acetate
enantiomeric separation
on MEGA-DEX DET Beta
chiral column

Courtesy of University of Torino - Prof. C. Bicchi et al.

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PRESS-FIT connectors

- easy to handle

- a simple pressure to
assure a perfect seal

- easy to install

MEGA Press-Fit connectors allow you to simply connect, with a tight seal, different columns or Retention Gaps together in many ways. Our Press-Fit connectors are custom-made to fit any tubing size and to ensure the minimal dead volume. Visit our website to download the free guide "Press-Fit Connectors Tips" and discover how easy is to use our Press-Fit connectors.

Press-Fit Union linear connectors, ideal to connect two columns or a Retention Gap to the analytical column.



Press-Fit "Y" three ways connectors, ideal to connect two analytical columns to a single injector port or split the exit of one column to a dual detector GC system. Many other configurations are possible using MEGA "Y" Press-Fit.



MEGA produces also personalized **Multiways Press-Fit connectors** for advanced analytical system configurations as MDGC and other custom settings.



general purpose RETENTION GAPs

- easy to handle

- exceptional inertness

- easy to install

Retention Gaps deactivated for any purpose: our Retention Gaps are suitable for any analytical needs (use with polar solvents, apolar solvents and for general use) and available in any internal diameter size (0.05, 0.075, 0.10, 0.15, 0.18, 0.20, 0.25, 0.32, 0.45, and 0.53mm I.D.). Any length is available, also in pre-cut pieces individually packaged and ready to use.

MEGA Retention Gaps have an unsurpassed chemical inertness. Use our Retention Gaps for focusing the sample components when introducing a large (liquid) sample directly into the column and/or to protect the analytical column from contamination. Retention Gaps are also useful as connecting pipes to various part of systems with different configurations.

Discover also our **MEGA-GAP** columns line with integrated built-in Retention Gap. No connections needed. Visit our website or contact us for more information.

MEGA GAP

Integrated built-in retention gap

MEGA®
improve your GC analysis

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- want to optimize Your analytical method ?
- a new sample to analyze and don't know which is the best column to use ?
- want to see the performances of our products before buy them ?
- any other analytical problem in Gas Chromatography ?

Just:

- send us Your real sample to analyze
- contact us



 follow us @MEGAColumns



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