MEGA S.r.l. - Via Plinio, 29 - 20025 Legnano (MI)- Italy - Tel./Fax: +39 033 I .54.79.24 - info@mega.mi.it

since 1980

2020

MEGA®

improve your GC analysis

GC columns
accessories and solutions

www.mega.mi.it

since 1980

GC-MS columns

dex xeb chiral columns

CUSTOM DEDICATED COLUMNS

mega 2D columns

FAST-GC solutions

MegaHT High Temperature Columns

general purpose RETENTION GAPs

PRESS-FIT connectors

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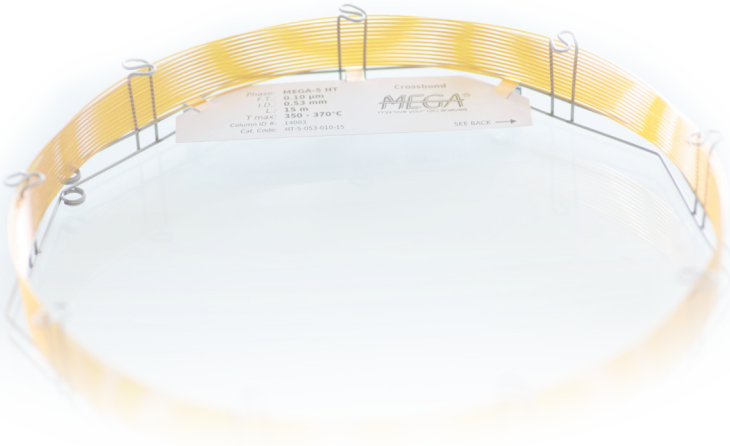

About us

MEGA®
improve your GC analysis

For more than 35 years, MEGA has developed and manufactured gas chromatography GC columns offering both general-purpose and application-specific solutions to analysts around the world. Today we produce and offer:

- one of the most complete range of analytical columns for GC, GC-MS, FAST-GC, Wide-Bore GC, Chiral-GC
- special and innovative products and accessories for Multidimensional-GC (inlcuding GCxGC), High Temperature GC and MEMS micro-fabricated "Lab-on-a-chip" GC
- excellent efficiency and inertness; we produce and test each column one-by-one to assure the maximum column-to-column reproducibility and quality
- custom products by request
- support and services for Your GC analysis

our experience in Gas Chromatography at Your service

GC Columns Available Dimensions

Internal Diameter	0.05mm	0.075mm	0.10mm	0.15mm
Length*	from 1 to 5m	from 1 to 10m	from 1 to 20m	from 1 to 40m
Film Thickness**	from 0.05 to 0.25µm	from 0.05 to 0.50µm	from 0.05 to 1.40µm	from 0.05 to 2.00µm

FAST

Internal Diameter	0.18mm	0.20mm	0.25mm	0.32mm
Length*	from 5 to 60m	from 5 to 105m	from 5 to 105m	from 5 to 105m
Film Thickness**	from 0.05 to 2.00µm	from 0.05 to 2.00µm	from 0.05 to 3.00µm	from 0.05 to 10.00µm

CONVENTIONAL

Internal Diameter	0.45mm	0.53mm
Length*	from 5 to 75m	from 5 to 75m
Film Thickness**	up to 7.00µm	up to 10.00µm

WIDE-BORE

Completely customize your column by selecting every combination of sizes and asking for out-of-catalog configurations. Since 1980 we develop ad-hoc solutions for your specific analytical problem. We are also able to tune the selectivity of the stationary phase to respond to particular needs.

All our stationary phases are available for FAST, Conventional, Wide-Bore and Multidimensional-GC, including solutions and kits for GCxGC.

*: shorter and special lengths are available for GCxGC solutions and kits
**: the maximum film thickness depends on the stationary phase type

Products Highlight

Metal MTX capillary columns for high temperature GC (**up to 420-430°C with our HT phases**). You can require almost every stationary phase (not HT too) to be coated onto the high inertness metal capillary tubing. Contact us to have more details and send your request

metalMTX GC columns

MEGA-WAX Plus column is a **new high stable and inert PEG phase** (270°C max Temperature) excellent also for GC-MS analysis, truly equivalent to InnoWax columns. Crossbonded and water resistant

mega WAX plus

MEGA-FFAP EXT column is a **crossbonded and water resistant** version of the well known MEGA-ACID (FFAP) phase with also an extended working temperature range

mega FFAP EXT

MEGA-2D single column is a **revolutionary unique tubing column coated with two in series different stationary phases** for GCxGC and MD-GC applications. No connections are needed. Contact us to have more information and discover new selectivities using MEGA-2D technology applied to conventional 1D GC too

mega 2D columns

MEGA-XMLB column is a **new selectivity low polarity phase ideal as confirmation column**. MEGA-XMLB is a low bleeding and high temperature stable column (up to 360°C) excellent for Pesticides, PCBs and PAHs analysis for example

mega XMLB

MEGA-PAH 2 column arrives beside MEGA-PAH column to **solve EU-regulated PAHs isomers separation**. High termal stability and low bleeding assure an excellent signal-to-noise ratio

mega PAH 2

MEGA-WAX BA is a basic treated PEG column **specifically designed for basic compounds analysis**, including alkylamines, diamines, triamines etc.

mega WAX BA

Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-1 100% methyl polysiloxane	up to **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, SimDist, drugs, natural gases, essential oils, semivolatiles, pesticides, phenols, etc.
MEGA-5 5% phenyl, 95% methyl polysiloxane	up to **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, phenols, etc.
MEGA-SE52 5% phenyl, 95% methyl polysiloxane	up to **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	up to **350°C**	SE54	**USP: G27, G36, G41**	**General purpose column** Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, allergens, pesticides, etc.
MEGA-1701 14% cyanopropylphenyl, 86% methyl polysiloxane	up to **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, oxygenated pesticides, essential oils, allergens, etc. **Ideal as confirmation column and GCxGC applications**
MEGA-17 50% phenyl, 50% methyl polysiloxane	up to **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, etc.** **USP: G3, G17**	**General purpose column** Phthalate esters, herbicides, pharmaceuticals, etc. **Ideal as confirmation column and GCxGC applications**
MEGA-624 6% cyanopropylphenyl, 94% methyl polysiloxane	up to **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** Volatile organic pollutants, purgeable aromatics, purgeable hydrocarbons, VOCs, pharmaceuticals, etc.
MEGA-WAX polyethylene glycol (PEG)	up to **250°C**	DB-Wax, HP-Wax, AT-Wax(+), ZB-Wax, 007-CW, Rtx-Wax, BP-20, CP Wax 52 CB	EPA: 602, 603, 619, 8015C, etc.** **USP: G14, G15, G16, 467 (OVIs)**	**General purpose column** FAMEs, flavor compounds, essential oils, BTEX aromatics, solvents, alcohols, etc. **Tune your Wax column polarity (i.e. WAX-20M, WAX-400, WAX-8M and more!). Ask us for more info**
MEGA-1 MS low bleeding 100% methyl polysiloxane	up to **350°C**	DB-1 ms (UI), HP-1 ms, AT-1 ms(+), ZB-1 ms, Rtx-1 ms, Equity-1, CP Sil 5 CB ms	EPA: 504.1, 505, 606, etc.** **USP: G1, G2, G9, G38**	**General purpose column for GC-MS** See MEGA-1 phase on this page
MEGA-5 MS low bleeding 5% phenyl, 95% methyl polysiloxane	up to **360°C**	DB-5 ms (UI), HP-5 ms, AT-5 ms(+), ZB-5 ms, 007-5 ms, Rtx-5 ms, Equity-5, BPX-5	EPA: 513, 528, 552, 610, 613, 1625, 1653, 8015B, 8091, 8100, 8141A/B, 8280A, etc.** **USP: G27, G36, G41**	**General purpose column for GC-MS** See MEGA-5 phase on this page

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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-5 MS Xil low bleeding silphenylene based MS phase	up to **360°C**	DB-5 ms (UI), Rtx-5 Sil ms, SLB-5 ms, ZB-5 ms	EPA: 513, 515.2, 521, 525, 529, 552.2, 604, 610, 625, 1613, 1625, 8041 8061A, 8081A, 8121, 8270C, etc.** **USP: G27, G36, G41**	**General purpose column for GC-MS** Dioxins and furans, herbicides, phthalate esters, POCs, chlorinated acids, etc.
MEGA-35 MS low bleeding 35% phenyl, 65% methyl polysiloxane	up to **340°C**	DB-35 ms, BPX-35, BPX-608, ZB-MultiResidue-2, Rtx-35 Sil ms	EPA: 507, 508, 552, 614, 615, 622, 8141A, 8151A, etc.** **USP: G28, G32, G42**	**General purpose column for GC-MS** See MEGA-35 phase on the next page
MEGA-17 MS low bleeding 50% phenyl, 50% methyl polysiloxane	up to **340°C**	DB-17 ms, Rtx-17 Sil ms	EPA: 505, 610, 614, 619, 8040, 8041, etc.** **USP: G3, G17**	**General purpose column for GC-MS** See MEGA-17 phase on the previous page
MEGA-225 MS low bleeding 25% cyanopropyl, 25% phenyl, 50% methyl polysiloxane	up to **240°C**	DB-225 ms	EPA: 8095, etc.** **USP: G7, G19**	**General purpose column for GC-MS** See MEGA-225 phase on the next page
MEGA-624 MS low bleeding 6% cyanopropylphenyl, 94% methyl polysiloxane	up to **280°C**	VF-1301 ms, VF-624 ms	EPA: 8260B, etc.** **USP: G43, 467 (OVIs)**	**General purpose column for GC-MS** See MEGA-624 phase on the previous page
MEGA-WAX MS low bleeding polyethylene glycol (PEG)	up to **270°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** See MEGA-WAX phase on the previous page
MEGA-10 100% cyanopropyl polysiloxane	up to **260°C**	HP-88, AT-Silar, Silar 10 Rtx-2560, SP-2560, BPX-70 CP Sil 88, ZB-FAME	EPA: 613, 1613, 8290B, etc.** **USP: G5, G8, G48**	High polarity column ideal for ***cis/trans* FAMEs isomers analysis, available also for FAST-GC**
MEGA-13 13% phenyl, 87% methyl polysiloxane	up to **350°C**	CP Sil 13 CB	EPA: 601, 602, 624, etc.**	**General purpose column, ideal as confirmation column**
MEGA-20 20% phenyl 80% methyl polysiloxane	up to **340°C**	AT-20(+), 007-7, Rtx-20, SPB-20	**USP: G28, G32**	**General purpose column, ideal as confirmation column**
MEGA-200 trifluoropropyl, methyl polysiloxane	up to **250°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.

*: the temperature range may change depending on the stationary phase film thickness.
**: visit our website for a more complete guide to choose your GC column on the basis of EPA normative, USP requirements and/or ASTM method.

Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-225 25% cyanopropyl, 25% phenyl 50% methyl polysiloxane	up to **260°C**	DB-225, HP-225, AT-225(+), 007-225, Rtx-225, BP-225, CP Sil 43 CB	EPA: 8095, etc.** **USP: G7, G19, G26**	**Mid-to-high polarity phase** Carbohydrates, sterols, flavor compounds, etc.
MEGA-35 35% phenyl, 65% methyl polysiloxane	up to **340°C**	DB-35, HP-35, AT-35(+), ZB-35, 007-11, ZB-MultiResidue-2, 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	up to **260°C**	DB-23, Silar-5, Rtx-2330, SP-2330	**USP: G8**	**Mid-to-high polarity phase** Carbohydrates, sterols, FAMEs, flavor compounds, etc.
MEGA-ALC 1&2 proprietary specific phases	up to **280°C**	DB-ALC 1&2, Rtx-BAC 1&2	-	**Application specific column** for blood alcohols testing (see application notes on www.mega.mi.it)
MEGA-BASIC proprietary specific phase	**n.d.**	**unique column**	-	**Application specific column** for basic compouns (e.g. amines) (see application notes on www.mega.mi.it)
MEGA-BIODIESEL phases for biodiesel analysis	up to **380°C** (EN14105)	Biodiesel Columns	EN 14105 (ASTM 6584), EN 14103, EN 14110, EN 14331	**Application specific column** for free and total glycerine (phase stable up to 380°C) and for FAMEs in biodiesel analysis (see application notes on www.mega.mi.it)
MEGA-DAI 1&2 proprietary unique phases for Direct Aqueous Injections	up to **320°C**	**unique columns**	-	**Application specific column** for direct introduction of aqueous samples, thus minimizing sample preparation (see application notes on www.mega.mi.it)
MEGA-FFAP EXT acid modified polyethylene glycol (PEG)	up to **260°C**	DB-FFAP, AT-1000(+), ZB-FFAP, 007-FFAP, Stabilwax-DA, BP-21, Nukol, CP Wax 57 CB	EPA: 8032, etc.** **USP: G14, G15, G16, G25, G35, G39**	**General purpose column** ideal for free acids, FAMEs, BTEX aromatics, flavor compounds, alcohols, spirits, polar compounds, etc. **Extended temperature range phase, crossbonded.** **Aqueous samples compatible**
MEGA-JXR 100% methyl polysiloxane	up to **350°C**	**no equivalent on the market**	**USP: G1, G2, G9, G38**	General purpose apolar column
MEGA-LAP proprietary unique phase for Lipids Analysis	up to **370°C**	**unique column**	-	**Application specific column** for lipids, sterols and triglycerides analysis (see application notes on www.mega.mi.it)

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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-PAH unique phase for Polycyclic Aromatic Hydrocarbons	up to **350°C**	**unique column**	EPA: 610, 8100, etc.**	**Application specific column** for polycyclic aromatics hydrocarbons (see application notes on www.mega.mi.it)
MEGA-PLUS copolynmer polyethylene glycol + methyl polysiloxane	**n.d.**	Agilent "DX" columns series	EPA: 505, etc.**	**Discover new selectivities** Choose also between MEGA-PLUS 25 (25% PEG), MEGA-PLUS 75 (75% PEG)... and others! We can customize these columns as you need!
MEGA-POF 1&2 proprietary phases for pesticides, herbicides and insecticides	**n.d.**	**unique columns** ZB-MultiResidue-1 (MEGA-POF 1)	EPA: 622, etc.**	**Application specific columns** developed for pesticides, herbicides, insecticides analysis etc. (see application notes on www.mega.mi.it)
MEGA-1 PONA PDMS optimized for hydrocarbons analysis	up to **350°C**	DB-Petro, HP-Pona, Rtx-1 Pona, Petrocol	ASTM D6730-01, etc.**	**Optimized phase** for DHA (Detailed Hydrocarbons Analysis), PONA, PIANO and PNA analysis
MEGA-PS255 1% vinyl, 99% methyl polysiloxane	up to **350°C**	**no equivalent on the market**	-	Apolar phase, suitable for high film thickness columns, to analyze solvents, alcohols, volatiles, etc.
MEGA-PS264 5.8% phenyl, 0.2% vinyl, 94% methyl polysiloxane	up to **350°C**	**no equivalent on the market**	-	Apolar phase, suitable for high film thickness columns, to analyze solvents, alcohols, volatiles, etc.
MEGA-SE30 100% methyl polysiloxane	up to **350°C**	SE30	EPA: 504.1, 505, 606, 8141A, etc.** **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 (see application notes on www.mega.mi.it)
MEGA-TCEP 1,2,3-tris-(2-cyanoethoxy)propane	up to **150°C**	CP-TCEP, Rt-TCEP, SPB-TCEP	-	**Application specific columns** ideal for aromatics and oxygenates in gasoline
MEGA-VOC 1&2 proprietary phases for Volatile Organic Compounds	**n.d.**	**unique columns**	EPA: 503.1, 504.1, 524.2, 551.1, 601, 602, 603, 1624, 8010B, 8021B, 8030A, 8260B, etc.**	**Application specific columns** for volatiles organic compounds (OVIs), solvents and purgeable compounds. Due to the high max. temperature, they are **ideals for two-parallel columns config. in the same oven** (see application notes on www.mega.mi.it)

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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-DEX DAC Beta	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Diacethyl TBS Beta cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX DAC Gamma	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Diacethyl TBS Gamma cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX DET Beta	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Diethyl TBS Beta cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX DET Gamma	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Diethyl TBS Gamma cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX DMP Beta	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Dimethyl-pentyl TBS Beta cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX DMT Beta	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**Dimethyl TBS Beta cyclodextrin** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX B-SE	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**New cyclodextrin derivative** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX B-03	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**New cyclodextrin derivative** based column. See and download on www.mega.mi.it the application notes and a database with hundreds chiral compounds separated with MEGA-DEX columns
MEGA-DEX G-01	up to **230°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**New cyclodextrin derivative** based column. See and download on www.mega.mi.it the application notes **Unique column on the market able to separate Bornyl Acetate enantiomers**
MEGA-DEX G-03	up to **250°C**	dex xeb chiral columns	**chiral-enantiomeric separations**	**New cyclodextrin derivative** based column. See and download on www.mega.mi.it the application notes **Developed for pyrethroids and pesticides chiral separations**

dex FAST

MEGA has more than 35 years experience in manufacturing and developing chiral GC columns. Our MEGA-DEX GC columns line is growing; check on our website or contact us to have more info and application notes about, for example, our MEGA-DEX B-01 and B-02 chiral phases. A full line of MEGA-DEX FAST chiral columns is also available in order to speed up your enantiomeric separations while keeping excellent resolution efficiency.

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website for a more complete guide to choose your GC column on the basis of
ve, USP requirements and/or ASTM method.

Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
MEGA-1 HT 100% methyl polysiloxane for high temperature	up to **400°C**	**high temperature column** DB-1 HT, ZB-1 HT (Inferno)	-	**High Temperature general purpose column** See MEGA-1 phase. High Molecular Weight Waxes, Motor Oils, Polymers/Plastics, Simulated Distillation
MEGA-5 HT high temperature 5% phenyl, 95% methyl polysiloxane	up to **400°C**	**high temperature column** DB-5 HT, ZB-5 HT (Inferno)	-	**High Temperature general purpose column** See MEGA-5 phase. High Molecular Weight Waxes, Diesel Fuels, Simulated Distillation, Surfactants, Triglycerides
MEGA-8 HT high temperature low-to-mid polarity special phase	up to **400°C**	**high temperature column** HT8	-	**High Temperature general purpose column** Ideal for PCBs compounds, Pesticides, environmental analysis
MEGA-35 HT high temperature 35% phenyl, 65% methyl polysiloxane	up to **370°C**	**high temperature column** ZB-35 HT (Inferno)	-	**High Temperature general purpose column** See MEGA-35 phase. Semi-volatiles analysis, Pesticides, Pharmaceuticals
MEGA-17 HT high temperature 50% phenyl, 50% methyl polysiloxane	up to **370°C**	**high temperature column** DB-17 HT	-	**High Temperature general purpose column** See MEGA-17 phase. Ideal for confirmation analysis, ideal as high polarity dimension in GCxGC-HT configurations
MEGA-65 HT high temperature 65% phenyl, 35% methyl polysiloxane	up to **360-370°C**	**high temperature column** 007-65HT, Rtx-65TG, TAP-CB	-	**High Temperature column** Ideal for triglycerides separations based on carbon number and degree of unsaturation
MEGA-SE54 HT high temperature 5% phenyl, 1% vinyl, 94% methyl polysiloxane	up to **400°C**	**high temperature unique column**	-	**High Temperature general purpose column** See MEGA-SE54 phase. High boiling petroleum products, Long-chained hydrocarbons
MEGA-1701 HT high temperature 14% cyanopropylphenyl, 86% methyl polysiloxane	up to **320°C**	**high temperature unique column**	-	**High Temperature general purpose column** See MEGA-1701 phase. Ideal for confirmation analysis, ideal as mid-polar column in GCxGC-HT configurations
MEGA-WAX HT high temperature polyethylenglycol (PEG)	up to **300°C**	**high temperature unique column**	-	**High Temperature unique PEG phase** Extend the temperature limits of your FAST-GC and GCxGC methods while using a polar WAX phase

MegaHT
High Temperature Columns

For our MEGA-HT High Temperature Columns range with fused silica tubing, we use specifically engineered high resistance polyimide coating, resulting in high temperature endurance and flexure with superior bend radius.

FAST-GC solutions

All our stationary phases are available for FAST-GC. Contac us to have more details.
You can download on www.mega.mi.it our free guide to FAST-GC with a tons of application notes and technical tips to perform and optimize your FAST-GC analysis.
0.15mm I.D., 0.18mm I.D. and 0.20mm I.D. tubing sizes are also available for all our columns.

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MEGA GAP
integrated built-in retention gap columns

Built-in Retention Gap - No Connections needed

MEGA-GAP columns line incoroporates both guard column and analytical column in a continuous length of tubing, eliminating the connection and all connection-associated problems. The guard column side is permanently marked with our oven temperature resistant labels.

Original Large Volume Gaps (UNCORET) columns (0.53mm, 12m Integrated Gap + 3m coated) are available from MEGA.

Extend your column's lifetime with this connection-free solution!

general purpose RETENTION GAPs

Easy to handle - Excellent inertness - Easy to install

Retention Gaps deactivated for any purpose: our Retention Gaps are suitable for any GC analytical need. Use with polar solvents, apolar solvents, water containing samples injections and for general use. They are 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.) with our standard fused silica tubing or with our High-Temperature fused silica tubing. Any length available, also in pre-cut pieces individually packaged and ready to use. By request we also pre-install (with our Press-Fit connectors, see below) the selected retention gap on the GC column for a ready-to-install solution.

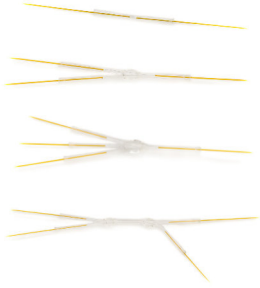
MEGA Retention Gaps have an unsurpassed chemical inertness. Use our Retention Gaps for focusing the analytes when a large (liquid) sample is introduced directly into the column and/or to protect the analytcal column from contamination. Deactivated Retention Gaps are also useful as connecting pipes to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

PRESS-FIT connectors

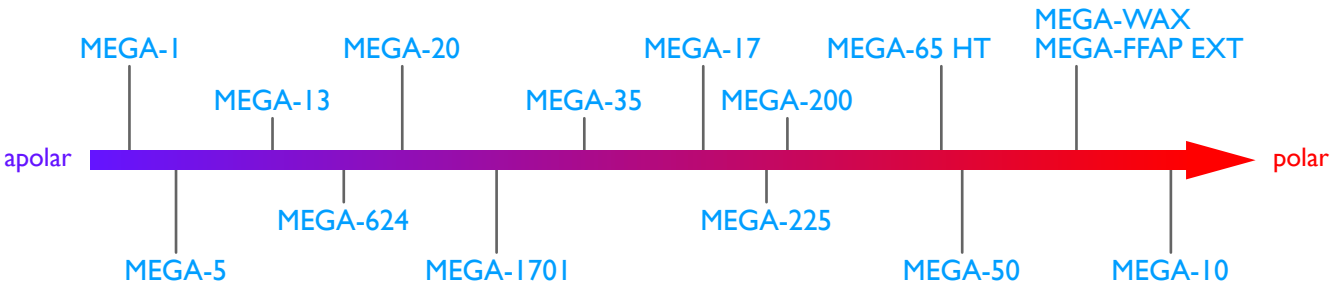
Easy to handle - Easy to install

A simple pressure to assure a perfect seal

MEGA Press-Fit Connectors allow you to simply connect, with a tight seal, different columns or Retenetion Gaps in many ways. Our Press-Fit connectors are universal to fit any tubing size. Available as linear 2-ways union (to connect two columns or a Retention Gap to the analytical column), "Y" 3-ways (e.g. ideal to connect two columns to a single injector - double detector GC configuration) or personalized Multiwas connectors for advanced analytical system configurations as MD-GC and other custom settings.



Common Phases Polarity Quick View

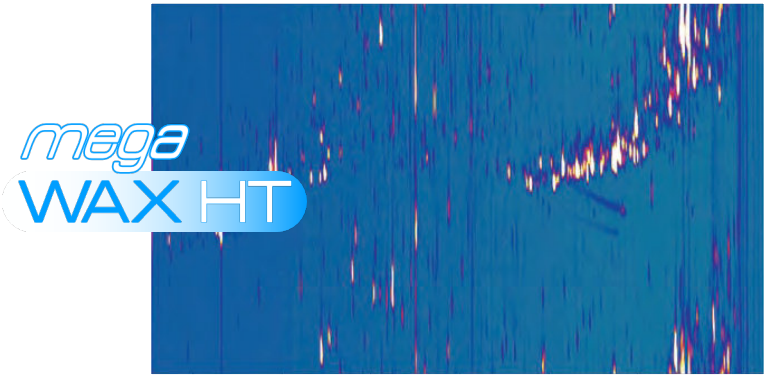


GCxGC Solutions

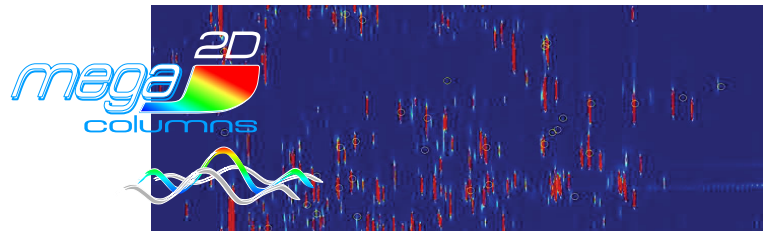
MEGA offers unique and innovative products for your GCxGC analysis.

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

The selectivity of the stationary phase plays a fundamental role in GC and it 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 configuration.



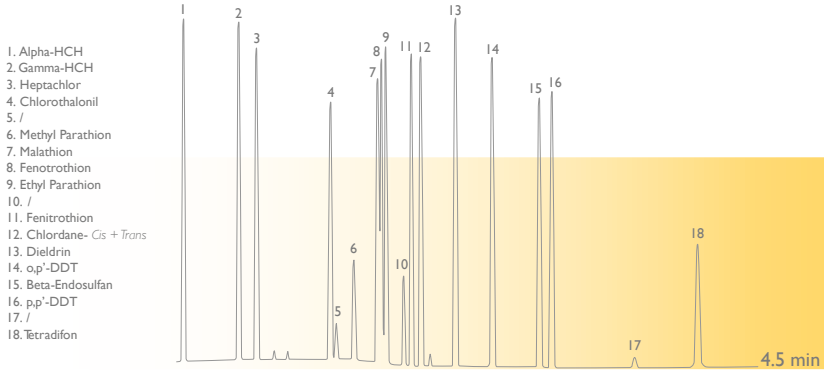
Kunzea essential oil GCxGC analysis using MEGA-WAX HT on 2nd dimension.
Courtesy of R. Shellie et al.



Allergens standard mix GCxGC analysis using MEGA-2D unique column.
Courtesy of University of Turin, Prof. C. Bicchi, Prof. C. Cordero et al.

Application Notes

Visit our applications webpage to discover hundreds application notes and to find useful information on how to develop your analytical method. New technical notes are constantly added.



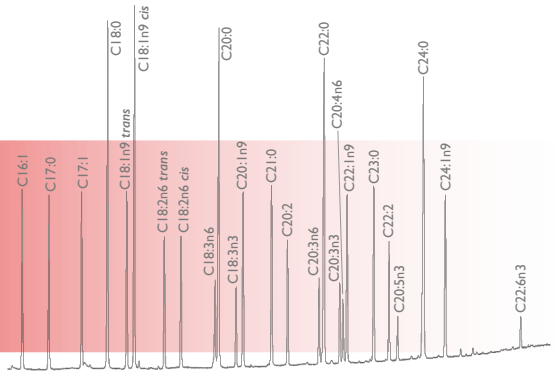
FAST-GC solutions

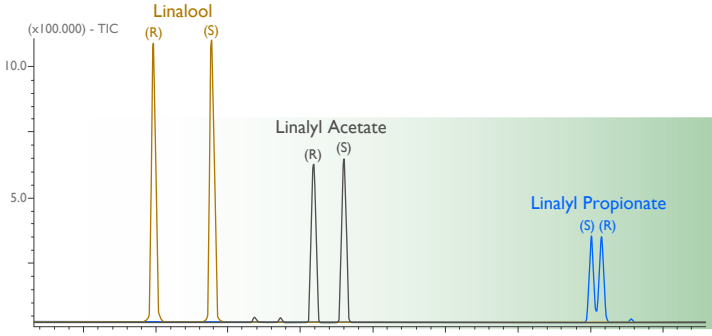
Pesticides mix on
MEGA-1701 FAST column
4.5 min analysis time only

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

CUSTOM DEDICATED COLUMNS

***cis/trans* FAMEs isomers**
high resolution separation on
MEGA-10 column
(available also in FAST-GC version)



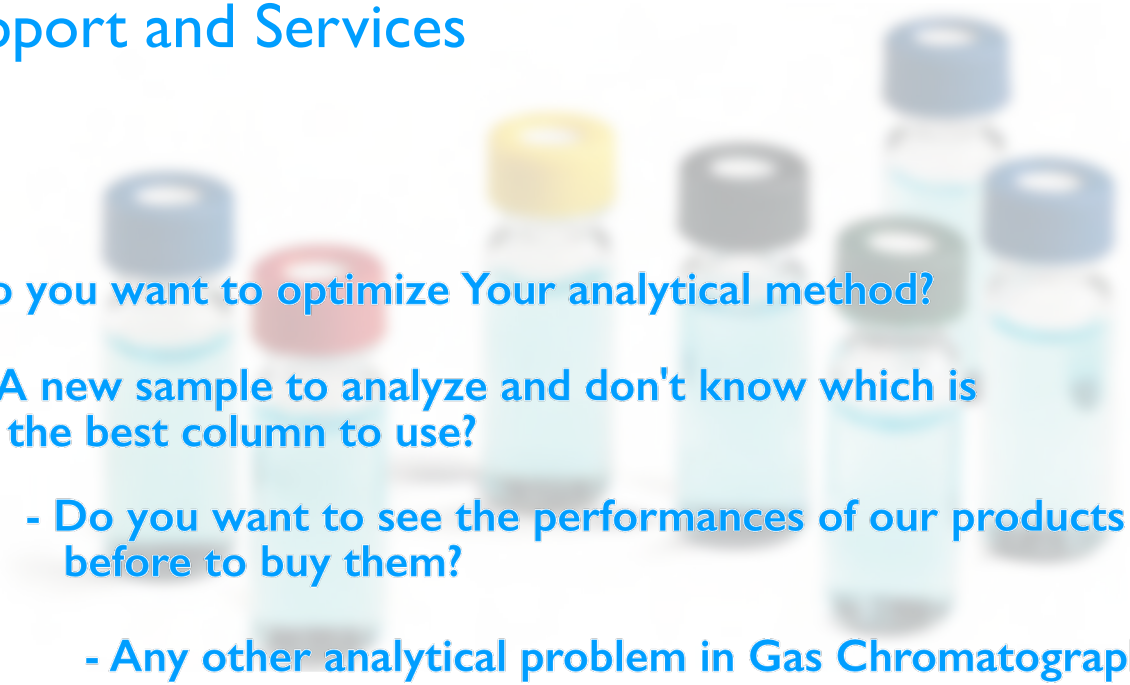


dex xeb chiral columns

Linalool - Linalyl Acetate
enantiomeric separation on
MEGA-DEX DET Beta chiral column
(available also in FAST-GC version)

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

Support and Services



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