

since
1980



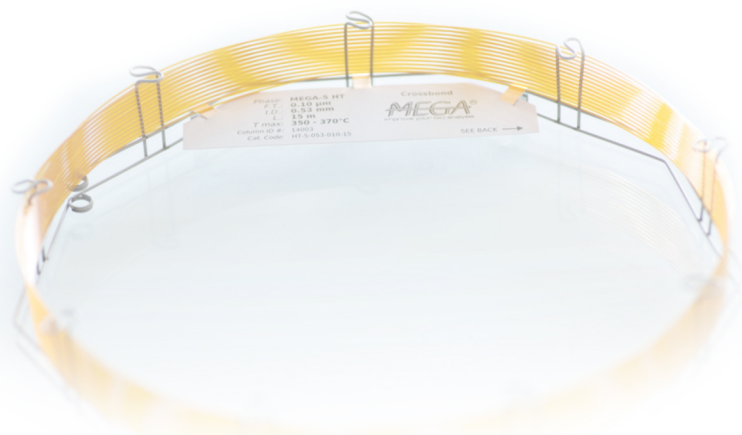
MILGA[®]
improve your GC analysis

GC columns
accessories
and solutions

BGB GC|LC
MS|CE

www.bgb-shop.com/mega

since
1980

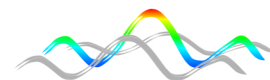


GC-MS
columns

dex xeb
chiral columns

CUSTOM
DEDICATED
COLUMNS

mega^{2D}
columns



FAST-GC
solutions

MegaHT
High Temperature Columns

general purpose
RETENTION
GAPs

PRESS-FIT
connectors

About us



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 (including 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 0.25 μ m | from 0.05 to 0.50 μ m | from 0.05 to 1.40 μ m | from 0.05 to 2.00 μ m |

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 2.00 μ m | from 0.05 to 2.00 μ m | from 0.05 to 3.00 μ m | from 0.05 to 10.00 μ m |

CONVENTIONAL

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

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

metal **MTX**
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 thermal 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

MEGA[®]
MEGA
improve your GC analysis

| Stationary Phase | T max * | Equivalent/Alternative to | EPA/USP Methods ** | Applications |
|--|--------------------|--|--|--|
| MEGA-I 100% methyl polysiloxane | up to 350°C | DB-I, HP-I, AT-I(+), ZB-I, 007-I, Rtx-I, BP-I, SPB-I, 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-I701 14% cyanopropylphenyl, 86% methyl polysiloxane | up to 280°C | DB-I701, HP-I701, AT-I701(+), ZB-I701, 007-I701, Rtx-I701, BP-I0, SPB-I701, 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-I7 50% phenyl, 50% methyl polysiloxane | up to 340°C | DB-I7, DB-608, HP-I7, 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-I MS low bleeding 100% methyl polysiloxane | up to 350°C | DB-I ms (UI), HP-I ms, AT-I ms(+), ZB-I ms, Rtx-I ms, Equity-I, CP Sil 5 CB ms | EPA: 504.1, 505, 606, etc.** USP: G1, G2, G9, G38 | General purpose column for GC-MS See MEGA-I 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 |

All the trademarks mentioned in this document are registered.

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***: 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-5 MS XiI 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 <i>cis/trans</i> 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. |

All the trademarks mentioned in this document are registered.

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***: 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 I&2 proprietary specific phases | up to 280°C | DB-ALC I&2, Rtx-BAC I&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 compounds (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 I&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 copolymer 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 I&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-I PONA PDMS optimized for hydrocarbons analysis | up to 350°C | DB-Petro, HP-Pona, Rtx-I 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 I&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 I&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 |  | chiral-enantiomeric separations | Diacetyl 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 |  | chiral-enantiomeric separations | Diacetyl 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 |  | 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 |  | 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 |  | 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 |  | 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 |  | 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 |  | 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 |  | 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 |  | 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
qex 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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www.bgb-shop.com/mega

| 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 (Infemo) | - | 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 (Infemo) | - | 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 (Infemo) | - | 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 polyethyleneglycol (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 |



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.



All our stationary phases are available for FAST-GC. Contact 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 incorporates 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.

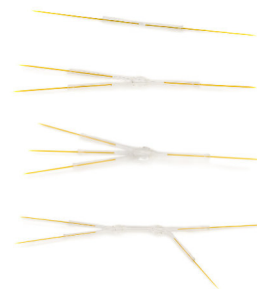
MEGA Retention Gaps have an unsurpassed chemical inertness. Use our Retention Gaps for focusing the analytes when a large (liquid) sample is introduced directly into the column and/or to protect the analytical column from contamination. Deactivated Retention Gaps are also useful as connecting pipes to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

PRESS-FIT connectors

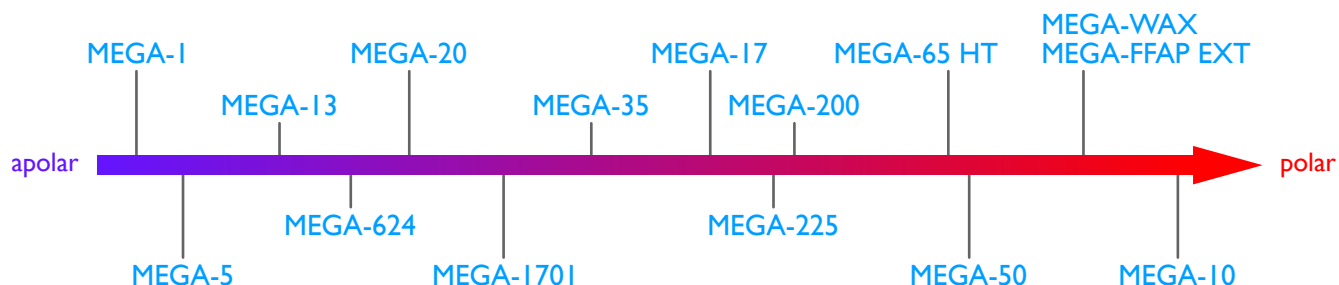
Easy to handle - Easy to install

A simple pressure to assure a perfect seal

MEGA Press-Fit Connectors allow you to simply connect, with a tight seal, different columns or Retention 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



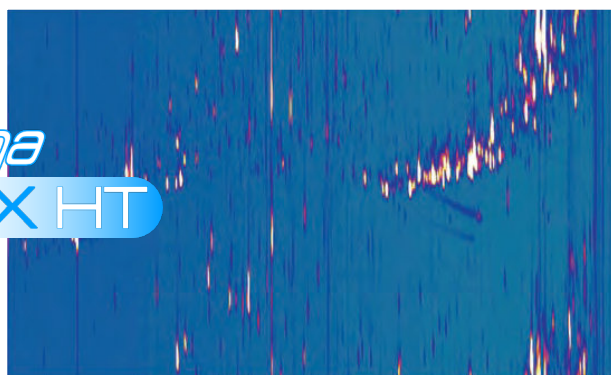
GCxGC Solutions

MEGA offers unique and innovative products for your GCxGC analysis.

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

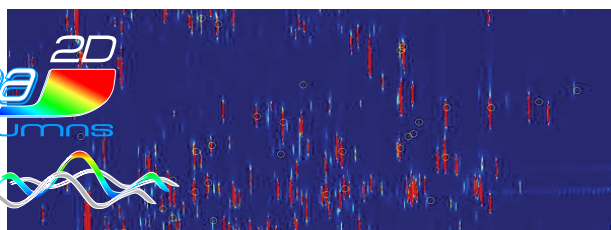
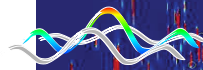
The selectivity of the stationary phase plays a fundamental role in GC and it is even more important in GCxGC. Ask us to tune the selectivity of the stationary phase thus to explore new and unique solutions and to optimize the orthogonality and the efficiency of your GCxGC configuration.

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

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columns

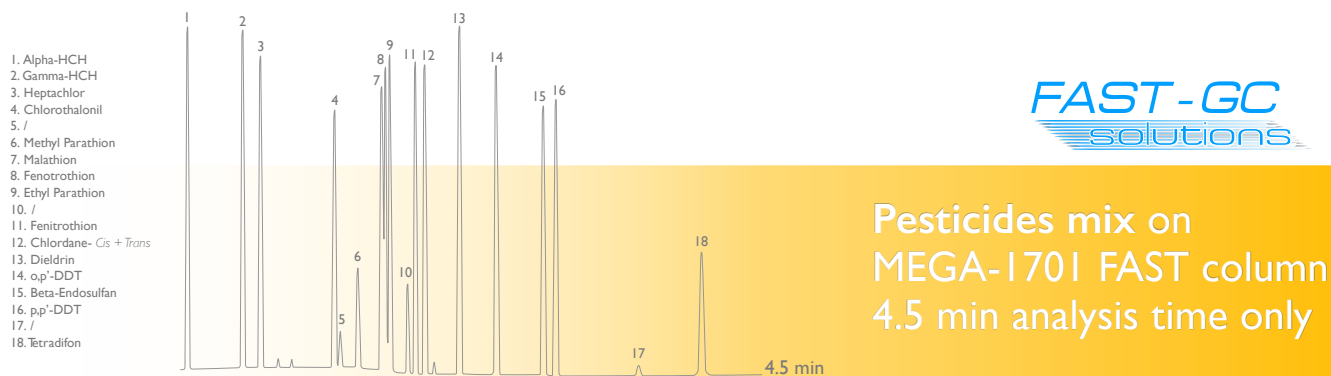


Allergens standard mix GCxGC analysis using MEGA-2D unique column. Courtesy of University of Turin, Prof. C. Bicchi, Prof. C. Cordero et al.

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Application Notes

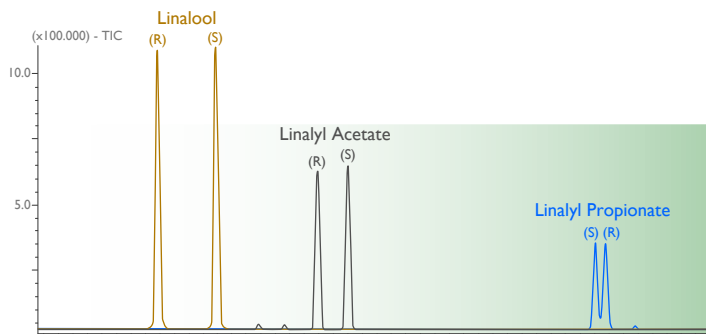
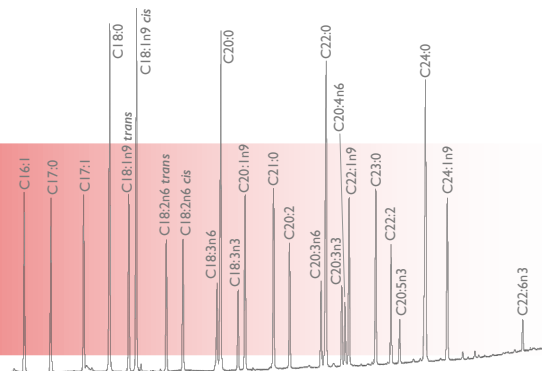
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Courtesy of University of Turin - Prof. C. Bicchi et al.

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(available also in FAST-GC version)



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

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- A new sample to analyze and don't know which is the best column to use?
- Do you want to see the performances of our products before to buy them?
- Any other analytical problem in Gas Chromatography?

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