

2018

since  
1980



GC columns  
accessories  
and solutions

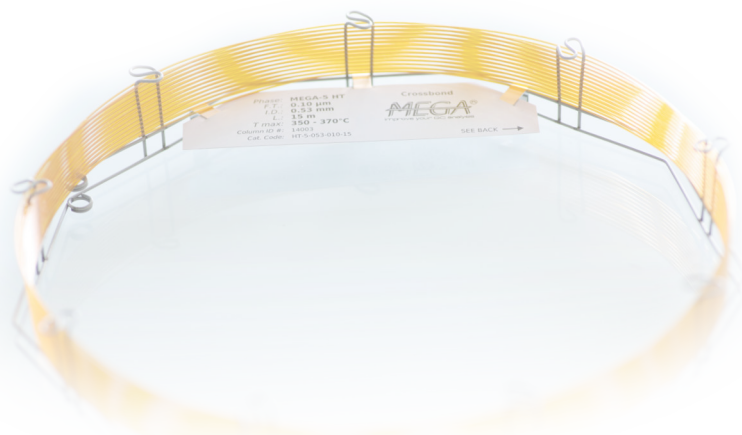


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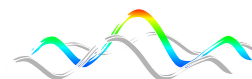


GC-MS  
columns

dex web  
chiral columns

CUSTOM  
DEDICATED  
COLUMNS

mega<sup>2D</sup>  
columns



FAST-GC  
solutions

MegaHT  
High Temperature Columns

general purpose  
RETENTION  
GAPs

PRESS-FIT  
connectors

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## 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

 <b>HROMalytic</b> +61(0)3 9762 2034 <b>ECHnology</b> Pty Ltd Website NEW : <a href="http://www.chromalytic.net.au">www.chromalytic.net.au</a> E-mail : <a href="mailto:info@chromtech.net.au">info@chromtech.net.au</a> Tel: 03 9762 2034 . . . in AUSTRALIA	<b>Australian Distributors</b> Importers & Manufacturers <a href="http://www.chromtech.net.au">www.chromtech.net.au</a>
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# 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<sup>2D</sup>**  
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**

Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
<b>MEGA-I</b> 100% methyl polysiloxane	up to <b>350°C</b>	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.** <b>USP: G1, G2, G9, G38</b>	<b>General purpose column</b> Solvent impurities, PCBs, SimDist, drugs, natural gases, essential oils, semivolatiles, pesticides, phenols, etc.
<b>MEGA-5</b> 5% phenyl, 95% methyl polysiloxane	up to <b>350°C</b>	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.** <b>USP: G27, G36, G41</b>	<b>General purpose column</b> Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, pesticides, phenols, etc.
<b>MEGA-SE52</b> 5% phenyl, 95% methyl polysiloxane	up to <b>350°C</b>	SE52	<b>USP: G27, G36, G41</b>	<b>General purpose column</b> Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, triglycerides, pesticides, poly-waxes, etc.
<b>MEGA-SE54</b> 5% phenyl, 1% vinyl, 94% methyl polysiloxane	up to <b>350°C</b>	SE54	<b>USP: G27, G36, G41</b>	<b>General purpose column</b> Solvent impurities, PCBs, hydrocarbons, essential oils, semivolatiles, allergens, pesticides, etc.
<b>MEGA-I701</b> 14% cyanopropylphenyl, 86% methyl polysiloxane	up to <b>280°C</b>	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.** <b>USP: G46</b>	<b>General purpose column</b> Residual solvents, oxygenated pesticides, essential oils, allergens, etc. <b>Ideal as confirmation column and GCxGC applications</b>
<b>MEGA-I7</b> 50% phenyl, 50% methyl polysiloxane	up to <b>340°C</b>	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.** <b>USP: G3, G17</b>	<b>General purpose column</b> Phthalate esters, herbicides, pharmaceuticals, etc. <b>Ideal as confirmation column and GCxGC applications</b>
<b>MEGA-624</b> 6% cyanopropylphenyl, 94% methyl polysiloxane	up to <b>280°C</b>	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.** <b>USP: G43, 467 (OVIs)</b>	<b>General purpose column</b> Volatile organic pollutants, purgeable aromatics, purgeable hydrocarbons, VOCs, pharmaceuticals, etc.
<b>MEGA-WAX</b> polyethylene glycol (PEG)	up to <b>250°C</b>	DB-Wax, HP-Wax, AT-Wax(+), ZB-Wax, 007-CW, Rtx-Wax, BP-20, CP Wax 52 CB	EPA: 602, 603, 619, 8015C, etc.** <b>USP: G14, G15, G16, 467 (OVIs)</b>	<b>General purpose column</b> FAMES, flavor compounds, essential oils, BTEX aromatics, solvents, alcohols, etc. <b>Tune your Wax column polarity (i.e. WAX-20M, WAX-400, WAX-8M and more!). Ask us for more info</b>
<b>MEGA-I MS</b> low bleeding 100% methyl polysiloxane	up to <b>350°C</b>	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.** <b>USP: G1, G2, G9, G38</b>	<b>General purpose column for GC-MS</b> See MEGA-I phase on this page
<b>MEGA-5 MS</b> low bleeding 5% phenyl, 95% methyl polysiloxane	up to <b>360°C</b>	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.** <b>USP: G27, G36, G41</b>	<b>General purpose column for GC-MS</b> See MEGA-5 phase on this page

All the trademarks mentioned in this document are registered.

\*: 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
<b>MEGA-5 MS XiI</b> low bleeding silphenylene based MS phase	up to <b>360°C</b>	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.** <b>USP: G27, G36, G41</b>	<b>General purpose column for GC-MS</b> Dioxins and furans, herbicides, phthalate esters, POCs, chlorinated acids, etc.
<b>MEGA-35 MS</b> low bleeding 35% phenyl, 65% methyl polysiloxane	up to <b>340°C</b>	DB-35 ms, BPX-35, BPX-608, ZB-MultiResidue-2, Rtx-35 Sil ms	EPA: 507, 508, 552, 614, 615, 622, 8141A, 8151A, etc.** <b>USP: G28, G32, G42</b>	<b>General purpose column for GC-MS</b> See MEGA-35 phase on the next page
<b>MEGA-17 MS</b> low bleeding 50% phenyl, 50% methyl polysiloxane	up to <b>340°C</b>	DB-17 ms, Rtx-17 Sil ms	EPA: 505, 610, 614, 619, 8040, 8041, etc.** <b>USP: G3, G17</b>	<b>General purpose column for GC-MS</b> See MEGA-17 phase on the previous page
<b>MEGA-225 MS</b> low bleeding 25% cyanopropyl, 25% phenyl, 50% methyl polysiloxane	up to <b>240°C</b>	DB-225 ms	EPA: 8095, etc.** <b>USP: G7, G19</b>	<b>General purpose column for GC-MS</b> See MEGA-225 phase on the next page
<b>MEGA-624 MS</b> low bleeding 6% cyanopropylphenyl, 94% methyl polysiloxane	up to <b>280°C</b>	VF-1301 ms, VF-624 ms	EPA: 8260B, etc.** <b>USP: G43, 467 (OVIs)</b>	<b>General purpose column for GC-MS</b> See MEGA-624 phase on the previous page
<b>MEGA-WAX MS</b> low bleeding polyethylene glycol (PEG)	up to <b>270°C</b>	Stabilwax, ZB-Wax plus, InnoWax, VF-WAX ms	EPA: 602, 603, 619, 8015C, 8121, etc.** <b>USP: G14, G15, G16, etc.**</b>	<b>General purpose column for GC-MS</b> See MEGA-WAX phase on the previous page
<b>MEGA-10</b> 100% cyanopropyl polysiloxane	up to <b>260°C</b>	HP-88, AT-Silar, Silar 10 Rtx-2560, SP-2560, BPX-70 CP Sil 88, ZB-FAME	EPA: 613, 1613, 8290B, etc.** <b>USP: G5, G8, G48</b>	High polarity column ideal for <i>cis/trans</i> FAMES isomers analysis, available also for FAST-GC
<b>MEGA-13</b> 13% phenyl, 87% methyl polysiloxane	up to <b>350°C</b>	CP Sil 13 CB	EPA: 601, 602, 624, etc.**	<b>General purpose column, ideal as confirmation column</b>
<b>MEGA-20</b> 20% phenyl 80% methyl polysiloxane	up to <b>340°C</b>	AT-20(+), 007-7, Rtx-20, SPB-20	<b>USP: G28, G32</b>	<b>General purpose column, ideal as confirmation column</b>
<b>MEGA-200</b> trifluoropropyl, methyl polysiloxane	up to <b>250°C</b>	DB-200, DB-210, AT-210(+), 007-210, Rtx-200, SP-2401, VF-200 ms	EPA: 551, 612, 625, 8095, etc.** <b>USP: G6</b>	<b>Unique selectivity column,</b> Freon fluorocarbons, ketones, alcohols, organophosphorus pesticides, etc.

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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
<b>MEGA-225</b> 25% cyanopropyl, 25% phenyl 50% methyl polysiloxane	up to <b>260°C</b>	DB-225, HP-225, AT-225(+), 007-225, Rtx-225, BP-225, CP Sil 43 CB	EPA: 8095, etc.** <b>USP: G7, G19, G26</b>	<b>Mid-to-high polarity phase</b> Carbohydrates, sterols, flavor compounds, etc.
<b>MEGA-35</b> 35% phenyl, 65% methyl polysiloxane	up to <b>340°C</b>	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.** <b>USP: G28, G32, G42</b>	<b>General purpose column</b> Pesticides, PCBs, substituted polar compounds, phenols, etc. <b>Ideal as confirmation column</b>
<b>MEGA-50</b> 50% cyanopropyl, 50% methyl polysiloxane	up to <b>260°C</b>	DB-23, Silar-5, Rtx-2330, SP-2330	<b>USP: G8</b>	<b>Mid-to-high polarity phase</b> Carbohydrates, sterols, FAMES, flavor compounds, etc.
<b>MEGA-ALC I&amp;2</b> proprietary specific phases	up to <b>280°C</b>	DB-ALC I&2, Rtx-BAC I&2	-	<b>Application specific column</b> for blood alcohols testing (see application notes on <a href="http://www.mega.mil.it">www.mega.mil.it</a> )
<b>MEGA-BASIC</b> proprietary specific phase	<b>n.d.</b>	<b>unique column</b>	-	<b>Application specific column</b> for basic compounds (e.g. amines) (see application notes on <a href="http://www.mega.mil.it">www.mega.mil.it</a> )
<b>MEGA-BIODIESEL</b> phases for biodiesel analysis	up to <b>380°C</b> (EN14105)	Biodiesel Columns	EN 14105 (ASTM 6584), EN 14103, EN 14110, EN 14331	<b>Application specific column</b> for free and total glycerine (phase stable up to 380°C) and for FAMES in biodiesel analysis (see application notes on <a href="http://www.mega.mil.it">www.mega.mil.it</a> )
<b>MEGA-DAI I&amp;2</b> proprietary unique phases for Direct Aqueous Injections	up to <b>320°C</b>	<b>unique columns</b>	-	<b>Application specific column</b> for direct introduction of aqueous samples, thus minimizing sample preparation (see application notes on <a href="http://www.mega.mil.it">www.mega.mil.it</a> )
<b>MEGA-FFAP EXT</b> acid modified polyethylene glycol (PEG)	up to <b>260°C</b>	DB-FFAP, AT-1000(+), ZB-FFAP, 007-FFAP, Stabilwax-DA, BP-21, Nukol, CP Wax 57 CB	EPA: 8032, etc.** <b>USP: G14, G15, G16, G25, G35, G39</b>	<b>General purpose column</b> ideal for free acids, FAMES, BTEX aromatics, flavor compounds, alcohols, spirits, polar compounds, etc. <b>Extended temperature range phase,</b> <b>crossbonded.</b> <b>Aqueous samples compatible</b>
<b>MEGA-JXR</b> 100% methyl polysiloxane	up to <b>350°C</b>	<b>no equivalent on the market</b>	<b>USP: G1, G2, G9, G38</b>	General purpose apolar column
<b>MEGA-LAP</b> proprietary unique phase for Lipids Analysis	up to <b>370°C</b>	<b>unique column</b>	-	<b>Application specific column</b> for lipids, sterols and triglycerides analysis (see application notes on <a href="http://www.mega.mil.it">www.mega.mil.it</a> )

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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
<b>MEGA-PAH</b> unique phase for Polycyclic Aromatic Hydrocarbons	up to 350°C	unique column	EPA: 610, 8100, etc.**	<b>Application specific column</b> for polycyclic aromatics hydrocarbons (see application notes on <a href="http://www.mega.mi.it">www.mega.mi.it</a> )
<b>MEGA-PLUS</b> copolymer polyethylene glycol + methyl polysiloxane	n.d.	Agilent "DX" columns series	EPA: 505, etc.**	<b>Discover new selectivities</b> Choose also between MEGA-PLUS 25 (25% PEG), MEGA-PLUS 75 (75% PEG)... and others! We can customize these columns as you need!
<b>MEGA-POF I&amp;2</b> proprietary phases for pesticides, herbicides and insecticides	n.d.	unique columns ZB-MultiResidue-I (MEGA-POF I)	EPA: 622, etc.**	<b>Application specific columns</b> developed for pesticides, herbicides, insecticides analysis etc. (see application notes on <a href="http://www.mega.mi.it">www.mega.mi.it</a> )
<b>MEGA-I PONA</b> PDMS optimized for hydrocarbons analysis	up to 350°C	DB-Petro, HP-Pona, Rtx-I Pona, Petrocol	ASTM D6730-01, etc.**	<b>Optimized phase</b> for DHA (Detailed Hydrocarbons Analysis), PONA, PIANO and PNA analysis
<b>MEGA-PS255</b> 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.
<b>MEGA-PS264</b> 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.
<b>MEGA-SE30</b> 100% methyl polysiloxane	up to 350°C	SE30	EPA: 504.1, 505, 606, 8141A, etc.** USP: G1, G2, G9, G38	General purpose apolar column
<b>MEGA-SOLVE I&amp;2</b> proprietary unique phases for complex solvents mix analysis	n.d.	unique columns TCEP (MEGA-SOLVE 2)	-	<b>Application specific columns</b> developed for complex solvents mixtures analysis. MEGA-SOLVE 2 is ideal for aromatics and oxygenates in gasoline (see application notes on <a href="http://www.mega.mi.it">www.mega.mi.it</a> )
<b>MEGA-TCEP</b> 1,2,3-tris-(2-cyanoethoxy)propane	up to 150°C	CP-TCEP, Rt-TCEP, SPB-TCEP	-	<b>Application specific columns</b> ideal for aromatics and oxygenates in gasoline
<b>MEGA-VOC I&amp;2</b> 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.**	<b>Application specific columns</b> for volatiles organic compounds (OVIs), solvents and purgeable compounds. Due to the high max. temperature, they are <b>ideals for two-parallel columns config. in the same oven</b> (see application notes on <a href="http://www.mega.mi.it">www.mega.mi.it</a> )

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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	<b>Diacetyl TBS Beta cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>Diacetyl TBS Gamma cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>Diethyl TBS Beta cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>Diethyl TBS Gamma cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>Dimethyl-pentyl TBS Beta cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>Dimethyl TBS Beta cyclodextrin</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>New cyclodextrin derivative</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>New cyclodextrin derivative</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> 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	<b>New cyclodextrin derivative</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> the application notes <b>Unique column on the market able to separate Bornyl Acetate enantiomers</b>
MEGA-DEX G-03	up to 250°C		chiral-enantiomeric separations	<b>New cyclodextrin derivative</b> based column. See and download on <a href="http://www.mega.mui.it">www.mega.mui.it</a> the application notes <b>Developed for pyrethroids and pesticides chiral separations</b>



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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Stationary Phase	T max *	Equivalent/Alternative to	EPA/USP Methods **	Applications
<b>MEGA-I HT</b> 100% methyl polysiloxane for high temperature	up to 400°C	high temperature column DB-I HT, ZB-I HT (Inferno)	-	High Temperature general purpose column See MEGA-I phase, High Molecular Weight Waxes, Motor Oils, Polymers/Plastics, Simulated Distillation
<b>MEGA-5 HT</b> 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
<b>MEGA-8 HT</b> 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
<b>MEGA-35 HT</b> 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
<b>MEGA-17 HT</b> 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
<b>MEGA-65 HT</b> 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
<b>MEGA-SE54 HT</b> 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
<b>MEGA-1701 HT</b> 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
<b>MEGA-WAX HT</b> 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](http://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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\*: 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.

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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!**



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.



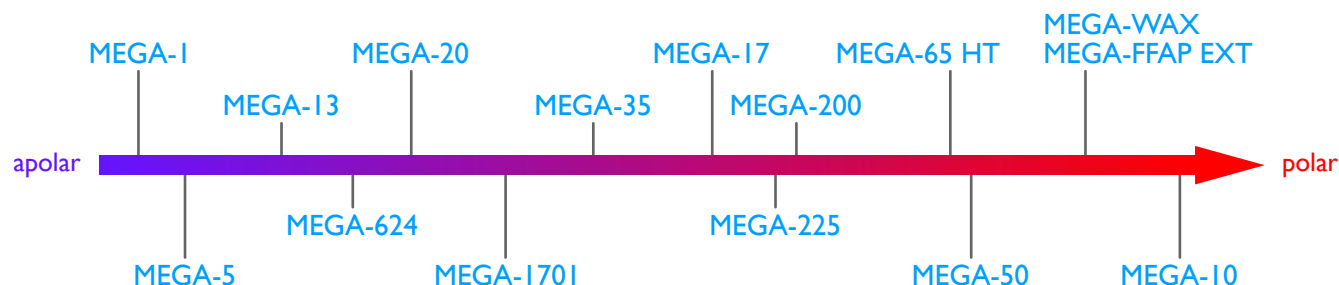
Easy to handle - Easy to install

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 Multiways connectors for advanced analytical system configurations as MD-GC and other custom settings.



# Common Phases Polarity Quick View



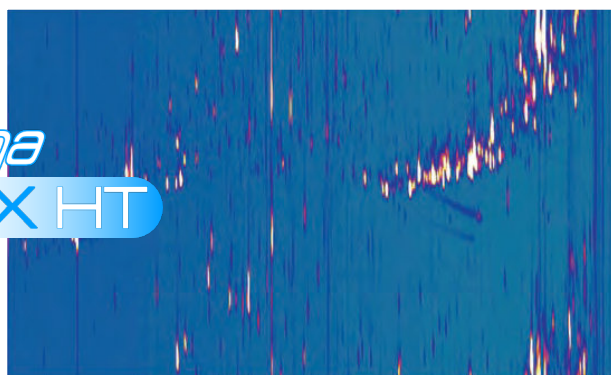
## GCxGC Solutions

MEGA offers unique and innovative products for your GCxGC analysis.

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

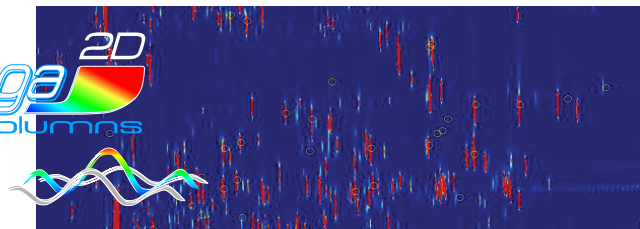
The selectivity of the stationary phase plays a fundamental role in GC and it is even more important in GCxGC. Ask us to tune the selectivity of the stationary phase thus to explore new and unique solutions and to optimize the orthogonality and the efficiency of your GCxGC configuration.

*mega*  
**WAX HT**



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

*mega*<sup>2D</sup>  
**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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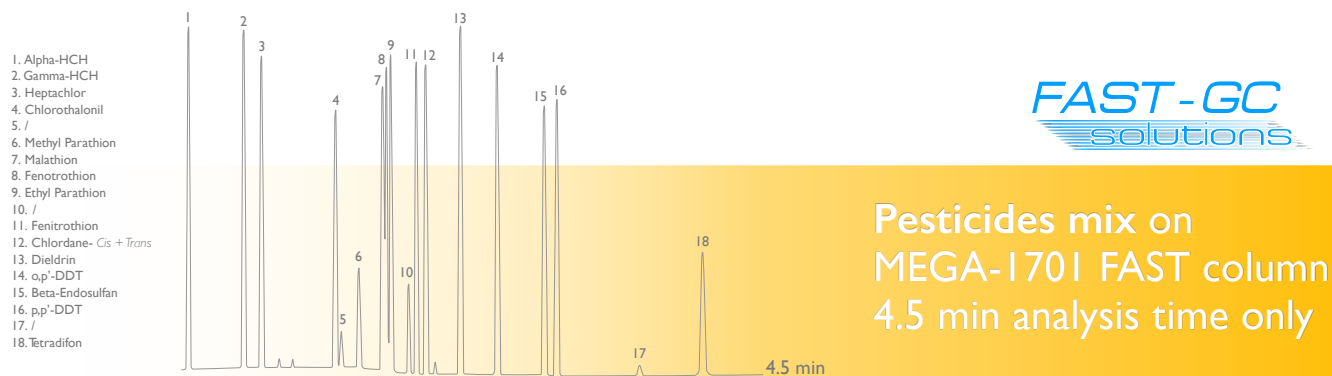
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# Application Notes

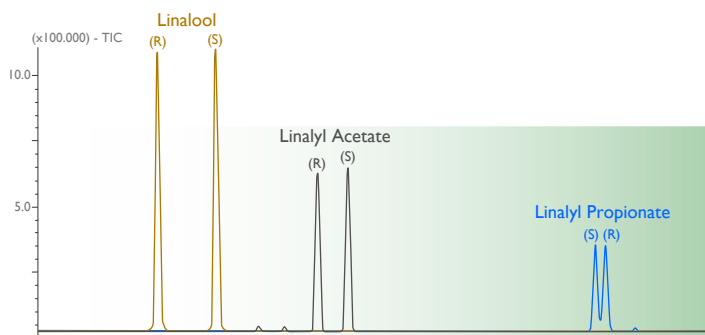
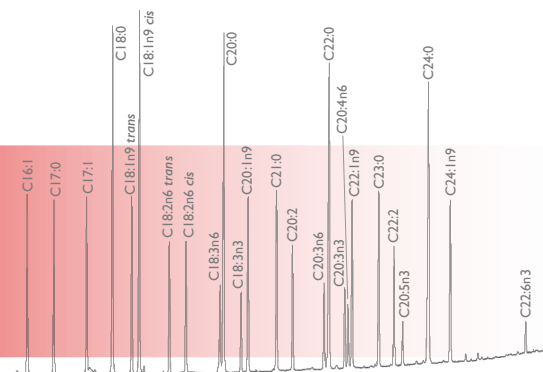
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Courtesy of University of Turin - Prof. C. Bicchi et al.

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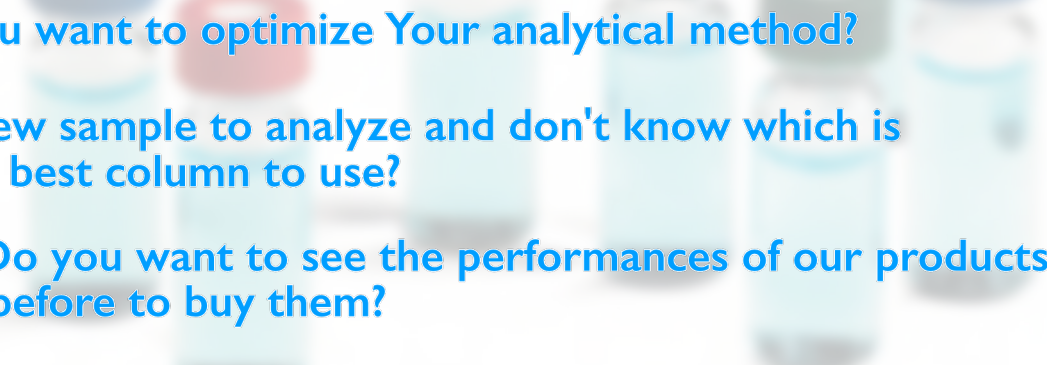
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