

30°

Anniversary  
1980 - 2010

# MEGA®

## CAPILLARY COLUMNS LABORATORY

Our Experience in Gas Chromatography at Your Service



e-brochure  
2010

**CHROM**alytic +61(0)3 9762 2034  
**ECH**nology Pty Ltd

Australian Distributors  
Importers & Manufacturers  
[www.chromtech.net.au](http://www.chromtech.net.au)

12/13

Website NEW : [www.chromalytic.com.au](http://www.chromalytic.com.au) E-mail : [info@chromtech.net.au](mailto:info@chromtech.net.au) Tel: 03 9762 2034 . . . in AUSTRALIA

- 30 years of experience in GC
- The most complete range of Stationary Phases for:
  - Conventional-GC
  - FAST-GC
  - Wide Bore GC
  - Chiral-GC
  - GC-MS
- Special and Innovative Products for:
  - GCxGC (2DGC)
  - High Temperature GC
- Custom Products by request with no additional costs
- PRESS-FIT Connectors (2-ways, 3-ways Y, Multiways)
- Retention Gaps Deactivated for any purpose

e-brochure **2010**

Columns Catalog

Column Cross - Reference (by phase).....	pag. 1
Phase Polarity Quick View.....	pag. 2
Column Cross - Reference (by application).....	pag. 3
Column Dimensions available.....	pag. 5



## Column Cross - Reference (by phase)



1

MEGA	Phase Composition	Agilent (J&W)	Alltech	Phenomenex	Quadrex	Restek	SGE	Supelco	Varian
MEGA - 1	100% Methyl Polysiloxane	DB-1 / HP-1	AT-1	ZB-1	007-1	Rtx-1	BP-1	SPB-1	CP Sil 5 CB
MEGA - 1 MS	100% Methyl Polysiloxane (Low Bleeding)	DB-1 ms, HP-1 ms	AT-1	ZB-1 ms	007-1	Rtx-1 ms		SPB-1, Equity-1	CP Sil 5 CB, Low Bleed / ms
MEGA - 5	5% Phenyl - 95% Methyl Polysiloxane	DB-5 / HP-5	AT-5	ZB-5	007-5	Rtx-5	BP-5	SPB-5	CP Sil 8 CB
MEGA - 5 MS	5% Phenyl - 95% Methyl Polysiloxane (Low Bleeding)	DB-5 ms, Ultra-2 HP-5 ms	AT-5 ms		007-5 ms	Rtx-5ms		SPB-5, Equity-5	
MEGA - Wax	Polyethyleneglycol (PEG)	DB-Wax, HP-Wax	AT-Wax	ZB-Wax	007-CW	Rtx-Wax	BP-20	OmegaWax	CP Wax 52 CB
MEGA - Wax MS	Polyethyleneglycol (PEG) (Low Bleeding)	DB-Wax, HP-Wax	AT-Wax ms	ZB-Wax	007-CW	Stabilwax	BP-20	OmegaWax	CP Wax 52 CB
MEGA - 1701	7% Cyanopropyl, 7% Phenyl, 86% Methyl Polysiloxane	DB-1701, HP-1701	AT-1701	ZB-1701	007-1701	Rtx-1701	BP-10	SPB-1701	CP Sil 19 CB, VF-1701 ms
MEGA - 35	35% Phenyl, 65% Methyl Polysiloxane	DB-35, HP-35	AT-35	ZB-35	007-11	Rtx-35	BPX-35, BPX-608	SPB-35, SPB-608	
MEGA - 35 MS	35% Phenyl, 65% Methyl Polysiloxane (Low Bleeding)	DB-35 ms				Rtx-35 Sil ms			
MEGA - 17	50% Phenyl, 50% Methyl Polysiloxane	DB-17, HP-17	AT-50	ZB-50	007-17	Rtx-17	BPX-50	SPB-50	CP Sil 24 CB, VF-17 ms
MEGA - 17 MS	50% Phenyl, 50% Methyl Polysiloxane (Low Bleeding)				new <b>column</b> , no equivalent				
MEGA - ACID (FFAP)	Polyethyleneglycol (PEG) Acid Modified	DB-FFAP	AT-1000		007-FFAP	Stabilwax-DA	BP-21	SPB-1000	CP Wax 58 CB
MEGA - 10 FAMES	100% Cyanopropyl Polysiloxane	HP-88	AT-Silar			Rtx-2330	BPX-70	SP-2330, SP-2560, SP-2331, SP-2380	CP Sil 88
MEGA - 225	25% Cyanopropyl, 25% Phenyl, 50% Methyl Polysiloxane	DB-225, HP-225	AT-225		007-225	Rtx-225	BP-225		CP Sil 43 CB
MEGA - 225 MS	25% Cyano Propyl, 25% Phenyl, 50% Methyl Polysiloxane (Low Bleeding)				new <b>column</b> , no equivalent				
MEGA - 624	3.5% Cyanopropyl, 3.5% Phenyl, 93% Methyl Polysiloxane	DB-624, DB-1301, HP-624, HP-1301	AT-624	ZB-624	007-624, 007-1301	Rtx-624, Vocol, Rtx-1301	BP-624	SPB-1301, Vocol, SPB-624	CP 1301, VF-624 ms
MEGA - 13	13% Phenyl, 87% Methyl Polysiloxane								CP Sil 13 CB
MEGA - BASIC	Proprietary Phase, for Basic Compounds separation (Amines)					unique <b>column</b>			
MEGA - SOLVE	Proprietary Phases, for complex Solvent mixtures separation					unique <b>column</b>			

All trademarks mentioned in this document are registered.



## Column Cross - Reference (by phase)



2

MEGA	Phase Composition	Agilent (J&W)	Alltech	Phenomenex	Quadrex	Restek	SGE	Supelco	Varian
MEGA - 50	50% Cyanopropyl, 50% Methyl Polysiloxane	unique column							
MEGA - 20	20% Phenyl - 80% Methyl Polysiloxane		AT-20		007-7	Rtx-20		SPB-20	
MEGA - 200	Trifluoropropyl Methyl Polysiloxane	DB-200, DB-210	AT-210		007-210	Rtx-200		SP-2401	VF-200 ms.
MEGA - DAI	Proprietary Phase, developed for Direct Aqueous Injection	unique column							
MEGA - LAP	Proprietary Phase, developed for Lipid Analysis	unique column							
MEGA - PLUS	Copolymer Polyethyleneglycol (PEG) + Methyl Polysiloxane	unique column							



**The New Wax-HT Column.**  
A new unique Wax stationary phase able to reach up to **300°C** even in isothermal mode.  
The performances of this new column are described on the "LCGC - Europe" - February 2010 issue.

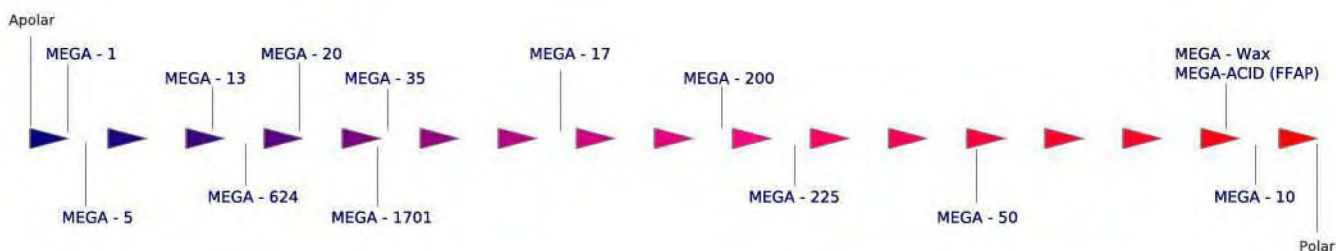


**The New MEGA-5 MS XII Column.**  
A new MS stationary phase that assure an ultra-low bleeding and unsurpassed performances for your MS analysis.  
Contact us to receive for free the e-brochure by e-mail of the new MEGA-5 MS XII Column.



**The New 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 info about all the MDGC MEGA solutions.

## Phase Polarity Quick View



All trademarks mentioned in this document are registered.



**HROMalytic** +61(0)3 9762 2034  
**ECHnology** Pty Ltd

**Australian Distributors**  
Importers & Manufacturers  
[www.chromtech.net.au](http://www.chromtech.net.au)

**12/13**

Website NEW : [www.chromalytic.com.au](http://www.chromalytic.com.au) E-mail : [info@chromtech.net.au](mailto:info@chromtech.net.au) Tel: 03 9762 2034 . . . in AUSTRALIA

## Column Cross - Reference (by application)



3

MEGA	Phase Composition	Temperature Max *	USP Nomenclature	EPA Methods, Normatives	Applications
MEGA - 1	100% Methyl Polysiloxane	350°C	G1, G2, G38	EPA 606	General Purpose column for solvent impurities, PCB congeners, Aroclor mixes, simulated distillation, drugs of abuse, gases, natural gases, essential oils, semivolatiles, pesticides
MEGA - 1 MS	100% Methyl Polysiloxane (Low Bleeding)	350°C	G1, G2, G38	EPA 606	General Purpose column (see MEGA-1) for GC-MS use
MEGA - 5	5% Phenyl - 95% Methyl Polysiloxane	350°C	G27, G36	EPA 611/8110, 604, 612, 607, 608/8081 USP 467 (OVI)	General Purpose column for solvent impurities, PCB congeners, Aroclor mixes, hydrocarbons, essential oils, semivolatiles, pesticides etc.
MEGA - 5 MS	5% Phenyl - 95% Methyl Polysiloxane (Low Bleeding)	350°C	G27, G36	EPA 8270, 625 525	General Purpose column (see MEGA-5) for GC-MS use
MEGA - Wax	Polyethyleneglycol (PEG)	260°C	G14, G15, G16, G20, G39	EPA 602, 603, 619 USP 467 (OVI)	General Purpose column for FAMES, solvents, BTEX aromatics, flavour compounds, alcohols
MEGA - Wax MS	Polyethyleneglycol (PEG) (Low Bleeding)	260°C	G14, G15, G16, G20, G39	EPA 602, 603, 619 USP 467 (OVI)	General Purpose column (see MEGA-Wax) for GC-MS use
MEGA - 1701	7% Cyanopropyl, 7% Phenyl, 86% Methyl Polysiloxane	280°C	G46		General Purpose column for alcohols, oxygenates, PCB congeners, Aroclor mixes, ideal as confirmation column
MEGA - 35	35% Phenyl, 65% Methyl Polysiloxane	340°C	G42		General Purpose column for volatile compounds, flavor compounds, alcoholic beverages, confirmation column
MEGA - 35 MS	35% Phenyl, 65% Methyl Polysiloxane (Low Bleeding)	340°C	G42		General Purpose column (see MEGA-35) for GC-MS use
MEGA - 17	50% Phenyl, 50% Methyl Polysiloxane	340°C			General Purpose column for volatile compounds, flavor compounds, alcoholic beverages, confirmation column
MEGA - 17 MS	50% Phenyl, 50% Methyl Polysiloxane (Low Bleeding)	340°C			General Purpose column (see MEGA-17) for GC-MS use
MEGA - ACID (FFAP)	Polyethyleneglycol (PEG) Acid Modified	260°C	G14, G15, G16, G20, G39		General Purpose column for Free Acids, FAMES, solvents, BTEX aromatics, flavour compounds, alcohols, polar compounds
MEGA - 10 FAMES	100% Cyanopropyl Polysiloxane	260°C	G48		General purpose column ideal for cis/trans FAMES and dioxin isomers
MEGA - 225	25% Cyano Propyl, 25% Phenyl, 50% Methyl Polysiloxane	280°C	G7, G19		General Purpose column for carbohydrate, sterols, flavors compounds
MEGA - 225 MS	25% Cyano Propyl, 25% Phenyl, 50% Methyl Polysiloxane (Low Bleeding)	280°C	G7, G19		General Purpose column (see MEGA-225) for GC-MS use
MEGA - 624	3.5% Cyanopropyl, 3.5% Phenyl, 93% Methyl Polysiloxane	300°C	G43	EPA 624, USP 467 (OVI)	General purpose column ideal for Volatile Organic Compounds
MEGA - 13	13% Phenyl, 87% Methyl Polysiloxane	340°C			General Purpose column for volatile compounds, flavor compounds, alcoholic beverages, confirmation column
MEGA - BASIC	Proprietary Phase, for Basic Compounds separation (Amines)	nd			Application-specific column for basic compounds analysis, amines
MEGA - SOLVE	Proprietary Phases, for complex Solvent mixtures separation	nd			Application-specific columns for complex mixtures of solvents

All trademarks mentioned in this document are registered  
 \*: the temperature range may change depending on the film thickness.



## Column Cross - Reference (by application)



4

MEGA	Phase Composition	Temperature Max *	USP Nomenclature	EPA Methods, Normatives	Applications
MEGA - 50	50% Cyanopropyl, 50% Methyl Polysiloxane	260°C			General Purpose column for carbohydrates, sterols, flavors compounds, confirmation column
MEGA - 20	20% Phenyl - 80% Methyl Polysiloxane	340°C	G28, G32		General Purpose column for volatile compounds, flavor compounds, alcoholic beverages, confirmation column
MEGA - 200	Trifluoropropyl Methyl Polysiloxane	300°C	G6		General Purpose column Freon Fluorocarbons, alcohols, ketones, confirmation column
MEGA - DAI	Proprietary Phase, developed for Direct Aqueous Injection	nd			Application-specific column for Direct Aqueous Injections without sample preparation
MEGA - LAP	Proprietary Phase, developed for Lipid Analysis	370°C			Application-specific column for Lipids, Sterols, Triglycerides analysis
MEGA - PLUS	Copolymer Polyethyleneglycol (PEG) + Methyl Polysiloxane	nd			General Purpose column
MEGA - Biodiesel	Phases for Biodiesel Analysis	370°C for UNI EN ISO 14105		UNI EN ISO 14105 (ASTM 6584), UNI EN ISO 14103 (2003)	Application-specific columns. There are 2 columns for Biodiesel Analysis, for Triglycerides analysis for UNI EN ISO 14105 (until 370°C) and for UNI EN ISO 14103 normatives
MEGA - TNT 8095	Unique phase	nd		EPA 8095	Application-specific column for Mixtures of Explosives
MEGA - Alc 1 & 2	Unique phases	nd			Application-specific columns for Blood Alcohols testing; equivalents to DB-ALC 1 & 2, Rtx-BAC 1& 2
MEGA - PAH	Unique phase	nd			Application-specific column for Polycyclic Aromatics Hydrocarbons
MEGA - 1 PONA	100% Methyl Polysiloxane	350°C			Application-specific column for Detailed hydrocarbon analysis, equivalent to DB-Petro, HP-PONA, Rtx-1 PONA
MEGA - Dex DET Beta	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations
MEGA - Dex DAC Beta	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations
MEGA - Dex DAC Gamma	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations
MEGA - Dex DET Gamma	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations
MEGA - Dex DMP Beta	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations
MEGA - Dex DMT Beta	Unique Phase, Cyclodextrines based	230°C			Application-specific column for Chiral separations

All trademarks mentioned in this document are registered  
 \*: the temperature range may change depending on the film thickness.



## Column dimensions available

MEGA snc offers a wide range of column dimensions; we can supply internal diameters from 0.05mm up to 0.53mm, from 2m up to 105m and film thickness until 5.00 micron.

Fast - GC		
ID	Length	Film Thickness*
<b>0.05 mm</b>	2 m	0.05 micron
	2.5 m	0.10 micron
	5 m	
<b>0.10 mm</b>	2.5 m	0.05 micron
	5 m	0.10 micron
	10 m	0.20 micron
<b>0.15 mm</b>	2.5 m	0.05 micron
	5 m	0.10 micron
	10 m	0.20 micron
	15 m	0.25 micron
	20 m	up to
	25 m	0.50 micron

Conventional - GC		
ID	Length	Film Thickness*
<b>0.18 mm</b>	from 10 m	from
	up to 60 m	0.05 micron up to 1.2 micron
<b>0.25 mm</b>	from 10 m	from
	up to 105 m	0.05 micron up to 3 micron
<b>0.32 mm</b>	from 10 m	from
	up to 105 m	0.05 micron up to 5 micron

Wide Bore - GC		
ID	Length	Film Thickness*
<b>0.53 mm</b>	from 10 m up to 105 m	up to 5 micron

You can completely customize your product selecting all combination of sizes but also ask for out of catalog products. We can develop a custom solution especially for your analytical problem without any additional costs. All our stationary phases are available for FAST-GC, Conventional-GC and Wide-Bore GC.

\*: the maximum film thickness depends on the stationary phase type.



**30°**  
Anniversary  
1980 - 2010

visit us online, you can find  
applications  
technical information  
support  
news  
and more

**MEGA**<sup>®</sup>  
CAPILLARY COLUMNS  
LABORATORY



**CHROM**alytic +61(0)3 9762 2034  
**ECH**nology Pty Ltd

**Australian Distributors**  
Importers & Manufacturers  
[www.chromtech.net.au](http://www.chromtech.net.au)

**12/13**

Website NEW : [www.chromalytic.com.au](http://www.chromalytic.com.au) E-mail : [info@chromtech.net.au](mailto:info@chromtech.net.au) Tel: 03 9762 2034 . . . in AUSTRALIA