



# HICHROM

Chromatography Columns and Supplies

## GAS CHROMATOGRAPHY Agilent Capillary GC Columns

Catalogue 9

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- Wide range of standard GC phases
- Low bleed phases for GC-MS
- Speciality phases
- Non-bonded, bonded and PLOT phases

Agilent J&W columns consist of a wide range of GC-MS and ultra inert stationary phases, showing column inertness, low column bleed and high upper temperature limits. The 'ms' range of GC-MS columns is based on unique polymer chemistry and proprietary surface deactivation. These phases show improved spectral integrity and greater signal-to-noise ratios for increased sensitivity and improvement of thermal stability and increased temperature limits.

A selection of the most popular phases is listed below. Columns are available with a wide range of lengths, inner diameters and film thicknesses.

Please contact Hichrom for ordering information.



## Popular Agilent GC Column Phases<sup>1</sup>

Phase	Phase Composition	Polarity	Max. Temp. Limit <sup>2</sup> (°C)	Applications/Features
<b>Low bleed GC-MS</b>				
DB-1ms	100% Dimethylpolysiloxane	Non-polar	340/360	General purpose, very low bleed characteristics, ideal for GC-MS, semivolatiles, halogenated compounds, pesticides, drugs of abuse, amines
HP-1ms	100% Dimethylpolysiloxane	Non-polar	325/350	
DB-5ms	5% Phenyl 95% dimethylarylene siloxane	Non-polar	325/350	
HP-5ms	5% Phenyl 95% dimethylpolysiloxane	Non-polar	325/350	
DB-35ms	35% Phenyl 65% dimethylpolysiloxane	Mid	340/360	Pesticides, herbicides, PCBs, PAHs
DB-XLB	Proprietary	Low	340/360	
DB-17ms	50% Phenyl 50% dimethylpolysiloxane	Mid	320/340	Antidepressants, herbicides, pesticides
DB-225ms	50% Cyanopropylphenyl 50% dimethylpolysiloxane	Mid/high	240	FAMES
<b>Polysiloxane polymer columns</b>				
DB-1	100% Dimethylpolysiloxane	Non-polar	325/350	Amines, hydrocarbons, pesticides, PCBs, phenols, flavours, fragrances
HP-1	100% Dimethylpolysiloxane	Non-polar	325/350	
DB-5	5% Phenyl 95% dimethylpolysiloxane	Non-polar	325/350	Semi-volatiles, alkaloids, drugs, FAMES, halogenated compounds, pesticides, herbicides
HP-5	5% Phenyl 95% dimethylpolysiloxane	Non-polar	325/350	
DB-35	35% Phenyl 65% dimethylpolysiloxane	Mid	300/320	Pesticides, aroclors, pharmaceuticals, drugs of abuse
HP-35	35% Phenyl 65% dimethylpolysiloxane	Mid	300/320	
DB-17	50% Phenyl 50% dimethylpolysiloxane	Mid	280/300	Drugs, glycols, pesticides, steroids
DB-23	50% Cyanopropyl 50% methylpolysiloxane	High	250/260	FAMES
HP-88	88% Cyanopropyl 12% arylpolysiloxane	High	250/260	FAMES
DB-200	35% Trifluoropropyl 65% dimethylpolysiloxane	Mid	300/320	Residual solvents, pesticides, herbicides
DB-210	50% Trifluoropropyl 50% dimethylpolysiloxane	High	240/260	EPA Methods 8140 and 609
DB-225	50% Cyanopropylphenyl 50% dimethylpolysiloxane	Mid/high	220/240	Cis/trans FAMES, alditol acetates, neutral sterols
DB-1301	6% Cyanopropylphenyl 94% dimethylpolysiloxane	Low/mid	280/300	Aroclors, alcohols, pesticides, VOCs
DB-1701	14% Cyanopropylphenyl 86% dimethylpolysiloxane	Low/mid	280/300	Pesticides, herbicides, TMS sugars, aroclors
<b>Polyethylene glycol (PEG) columns</b>				
DB-WAX	Polyethylene glycol (PEG)	High	240/260	Solvents, glycols, alcohols
DB-WAXetr	PEG	High	250/260	Extended temperature range
HP-INNOWAX	PEG	High	260/270	Alcohols, free organic acids, essential oils, fragrances
DB-FFAP	Nitroterephthalic acid modified PEG	High	250	Organic acids, alcohols, aldehydes, ketones, acrylates
HP-FFAP	Nitroterephthalic acid modified PEG	High	240/250	

<sup>1</sup> Other phases available

<sup>2</sup> Maximum temperatures are lower for 0.53µm film thickness columns

## Application Specific Columns

A number of application specific columns are also available, including those for analyses of biodiesel, blood alcohol, petroleum, PAHs, chiral analyses, high temperature columns and PLOT columns.

Please enquire for ordering information for any of these columns.