



HICHROM

Chromatography Columns and Supplies

GAS CHROMATOGRAPHY USP GC Phases

Catalogue 9

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GC COLUMN SELECTION BY USP SPECIFICATIONS

The USP specifications for GC column selection are given below with some matching capillary columns. In some cases, a particular column may fit into more than one category.

Method	Phase Composition	Recommendations
G1	Dimethylpolysiloxane oil	TG-1MS, TR-1MS, InertCap 1MS, DB-1ms, HP-1ms, OPTIMA 1 MS
G2	Dimethylpolysiloxane gum	TG-1MS, TR-1MS, InertCap 1MS, DB-1ms, HP-1ms, OPTIMA 1 MS
G3	50% Phenyl-50% methylpolysiloxane	TG-17MS, TR-50MS, InertCap 17MS, DB-17ms, OPTIMA 17 MS
G5	3-Cyanopropylpolysiloxane	TR-FAME, DB-23
G6	Trifluoropropylmethylpolysiloxane	TG-200MS, InertCap 210, DB-210, OPTIMA 210
G7	50% 3-Cyanopropyl-50% phenylmethylsilicone	TG-225MS, TR-225, DB-225ms, OPTIMA 225
G9	Methylvinylpolysiloxane	DB-1ms, DB-1ht
G14	Polyethylene glycol (ave. mol. wt. of 950 to 1050)	DB-WAX, DB-WAXetr, HP-INNOWAX
G15	Polyethylene glycol (ave. mol. wt. of 3000 to 3700)	DB-WAX, DB-WAXetr, HP-INNOWAX
G16	Polyethylene glycol (ave. mol. wt. ~15,000) with diepoxide linker	TR-Wax, TG-WaxMS, InertCap WAX, InertCap Pure-WAX, InertCap WAX-HT, OPTIMA WAX
G17	75% Phenyl-25% methylpolysiloxane	DB-17ms, HP-50+
G19	25% Phenyl-25% cyanopropyl-50% methylsilicone	TG-225MS, InertCap 225, DB-225ms, OPTIMA 225
G20	Polyethylene glycol (ave. mol. wt. of 380 to 420)	InertCap WAX, InertCap Pure-WAX, InertCap WAX-HT, TR-Wax, TG-WaxMS, DB-WAX
G25	Polyethylene glycol TPA (Carbowax 20M terephthalic acid)	TR-FFAP, DB-FFAP, HP-FFAP, OPTIMA FFAP
G27	5% Phenyl-95% methylpolysiloxane	TG-5MS, TR-5MS, InertCap 5MS/NP, DB-5ms, HP-5ms, OPTIMA 5 MS
G28	25% Phenyl-75% methylpolysiloxane	InertCap 25, DB-35, HP-35, OPTIMA 35 MS
G32	20% Phenylmethyl-80% dimethylpolysiloxane	DB-35ms, HP-35
G35	Polyethylene glycol and diepoxide esterified with nitroterephthalic acid	InertCap FFAP, DB-FFAP, HP-FFAP, OPTIMA FFAP
G36	1% Vinyl-5% phenylmethylpolysiloxane	TR-5MS, DB-5ms, HP-5ms, OPTIMA 5 MS
G38	Phase G1 plus a tailing inhibitor	TR-1MS, HP-1ms, DB-1ms, OPTIMA 1 MS
G39	Polyethylene glycol (ave. mol. wt. about 1500)	InertCap WAX, InertCap Pure-WAX, InertCap WAX-HT, DB-Wax, HP-INNOWAX
G41	Phenylmethyldimethylsilicone (10% phenyl-substituted)	DB-5, DB-5ms, HP-5, HP-5ms
G42	35% Phenyl-65% dimethylpolysiloxane	TG-35MS, TR-35MS, InertCap 35, DB-35ms, OPTIMA 35 MS
G43	6% Cyanopropylphenyl-94% dimethylpolysiloxane	TG-624, TG-17MS, TG-1301MS, TR-V1, InertCap 624, InertCap 1301, DB-1301, DB-624, OPTIMA 1301, OPTIMA 624
G45	Divinylbenzene-ethyleneglycol-dimethacrylate	TG-Bond U
G46	14% Cyanopropylphenyl-86% methylpolysiloxane	TG-1701MS, TR-1701, InertCap 1701, DB-1701, OPTIMA 1701
G47	Polyethylene glycol (ave. mol. wt. of about 8000)	DB-Wax, HP-INNOWAX
G48	90% Biscyanopropyl 10% cyanopropylphenylpolysiloxane	TG-POLAR, HP-88
G49	Proprietary derivatized phenyl groups on a polysiloxane backbone	OPTIMA δ-3

Packed GC Columns

Hichrom also supply a range of packed GC columns. Please enquire regarding ordering information and availability of packed GC columns.