



Agilent Technologies

Phases used in GC US Pharmacopeia Methods

Phase Name	Description	packed column	Capillary substitute
G1	Dimethylpolysiloxane oil	OV-101	HP-101
G2	Dimethylpolysiloxane gum	OV-1, SE-30	HP-1 DB-1 DB-1ms
G3	50%Phenyl- 50%methylpolysiloxane	OV-17	DB-17, HP-50+
G4	Diethylene glycol succinate polyester	same	n.a.
G5	3-Cyanopropylpolysiloxane	Silar 10C	DB-23, HP-88
G6	Trifluoropropylmethylpolysiloxane	OV-210, QF-1	DB-210, DB-200
G7	phenylmethylsilicone	Silar 5CP	n.a.
G8	phenylmethylsilicone	n.a. (SP-2330)	n.a.
G9	Methylvinylpolysiloxane	UCW-982	HP-1, Ultra 1 DB-XLB
G10	Polyamide	n.a.	n.a.
G11	Bis(2-ethylhexyl)sebacate polyester	n.a.	n.a.
G12	Phenyldiethanolamine succinate polyester	n.a.	n.a.
G13	Sorbitol	n.a.	n.a.
G14	Polyethylene glycol (av. wt 950-1050) Carbowax 1000	n.a.	n.a.
G15	Polyethylene glycol (av. wt 3000 to 3700) Carbowax 4000	n.a.	n.a.
G16	Polyethylene glycol (av. wt about 15000) a high molecular weight compound of polyethylene glycol and diepoxide or Pharma. Eur. Macrogol 20000	Carbowax 20M	HP-Innowax, DB-WaxExtr DB-WAX HP-20M, DB-CAM
G17	75%Phenyl-25%methylpolysiloxane	OV-25	n.a.
G18	Polyalkylene glycol UCON LB-1800	n.a.	n.a.
G19	25%Phenyl-25%cyanopropyl- 50%methylsilicone	OV-225	DB-225
G20	Polyethylene glycol (av. wt 380-420) Carbowax 400	n.a.	n.a.
G21	Neopentyl glycol succinate	n.a.	n.a.
G22	Bis(2-ethylhexyl) phthalate	n.a.	n.a.
G23	Polyethylene glycol adiapate	n.a.	n.a.
G24	Diisodecyl phthalate	n.a.	n.a.
G25	Polyethylene glycol compound TPA, A a high	Carbowax 20M TPA	HP-FFAP

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	molecular weight compound of polyethylene glycol and diepoxide is esterified with Terephthalic acid		DB-FFAP
G26	25%-2-Cyanoethyl-75%methylpolysiloxane	XE-60	HP-225
G27	5%-Phenyl-95%methylpolysiloxane	SE-52	HP-5, HP-5MS, DB-5, DB-5ms
G28	25%-Phenyl-75%-methylpolysiloxane	n.a.	(DB-35, DB35ms)
G29	β,β' -Thiodipropionitrile	n.a.	n.a.
G30	Tetraethylene glycol dimethyl ether	n.a.	n.a.
G31	Nonylphenoxy poly(ethyleneoxy)ethanol (av. Etylene-oxy chain length is 30); Nonoxynol	n.a.	n.a.
G32	20%-Phenylmethyl-80%methylpolysiloxane (OV-7)	n.a.	(DB-35)
G33	20%Carborane-80% methylsilicone	n.a.	n.a.
G34	Polyethylene glycol succinate polyester stabilized with H3PO4	EGS	n.a.
G35	A high molecular weight compound of polyethylene glycol and diepoxide that is esterified with Nitro-Therephthalic acid	FFAP	HP-FFAP DB-FFAP
G36	1%Vinyl-5%-phenylmethylpolysiloxane	SE-54	(HP-5, DB-5, DB-XLB)
G37	Polyimide	n.a.	n.a.
G38	Phase G1 containin small percentage of tailing inhibitor (SP2100/0.1% Carbowax	n.a.	n.a.
G39	Polyethylene glycol (av. about 1500)	Carbowax 1500	n.a.
G40	Ethylene glycol adiapate	n.a.	n.a.
G41	Phenylmethyldimethylsilicone (10% Phenyl-substituted)	n.a.	(DB-5ms)
G42	35%-Phenyl-65%dimethylvinylsiloxane (% refers to molar substitution)	n.a.	DB-35, DB-35ms
G43	6%Cyanopropylphenyl-94%-dimethylpolysiloxane (% refers to molar substitution)	n.a.	DB-1301, DB-624
G44	2% low molecular weight petroleum hydrocarbon grease in 1% solution of KOH.		n.a.
G45	divinylbenzene ethylene glycol dimethacrylate		HP-PLOT U
G46	14% cyanopropylphenyl 86% methyl polysiloxane		DB-1701
			()= best fit not identical
Support	80/100 mesh or 100/120 mesh are intended		
S1A	Silicious earth for GC has been flux-calcinated by mixing diatomite with Na2CO3 flux and calcining > 900 C. Acid wshed, water-washed until neutral, but not base-washed. May be silanized by treating agent such as Dimethyldichloro-silane, mask silano groups.	Chromosorb W HP	
S1AB	like S1A, but also base washed	n.a..	
S1C	Support prepared from firebrick and calcined or	Chromosorb P	

	burned with clay binder above 900 C with subsequent acid-wash. It may be slianzed.		
S1NS	Siliceous earth untreated	n.a.	DB-GasPro
S2	Styrene-divinylbenzene copolymer area < 50 m ² /g pore size 0.3-0.4 pm	Chromosorb 101	
S3	Copolymer of Ethylvinylbenzene and Divinylbenzene, nominal surface area 500 to 600 m ² per g, average pore diameter 0.0076 um	Hayesep Q	HP-PLOT-Q
S4	Styrene-divenylbenzene copolymer with aromatic-O and -N groups, nominal surface area 400 to 600 m ² per g, average pore diameter 0.0076 um	Porapak R, Hayesep R	(HP-PLOT U)
S5	High molecular weight Terafluethylene polymer	Chromosorb T	
S6	Styrene-divinylbenzene copolymer, nominal surface area 250 to 250 m ² per g, average pore diameter 0.0091 um	Chromosorb 102	
S7	Graphitized carbon nominal surface area 12 m ² /g	Carbopak C	
S8	Copolymer of 4-Vinyl-pyridine and Styrene-divinylbenzene	HayeSep S	
S9	Porous Polymer based on 2,6 Diphenyl-p-phenyleneoxide	Tenax	
S10	Highly polar cross-linked copolymer of Acrylonitrile and Divenylbenzene	HaySep C, Chromosorb 104	
S11	Graphitized carbon nominal surface area 100 m ² /g modified with small amounts of petrolatum and polyeththylene glycol compound	SP 1500 / Carbopack B	
S12	Graphitized carbon nominal surface area 100 m ² /g	Carbopack B	

