

USP Liquid Phase and Solid Support Cross-Reference

Restek can meet all of your packed column needs for US Pharmacopoeia methods. Commonly used USP liquid phases and supports are listed below. Call Restek or your representative for a quote on your next packed column for pharmaceuticals.

| USP | Phase Description | Restek-Supplied Equivalent |
|------|---|--|
| G1 | dimethylpolysiloxane oil | Rt™-2100, OV®-101, Rtx®-1 |
| G2 | dimethylpolysiloxane gum | OV®-1, Rtx®-1 |
| G3 | 50% phenyl-50% methylpolysiloxane | Rt™-2250, OV®-17 |
| G4 | diethylene glycol succinate polyester | Rt™-DEGS |
| G5 | 3-cyanopropylpolysiloxane | Rt™-2340 |
| G6 | trifluoropropylmethylpolysiloxane | Rt™-2401, OV®-210 |
| G7 | 50% 3-cyanopropyl-50% phenylmethylsilicone | Rt™-2300 |
| G8 | 80%bis (3-cyanopropyl)-20% phenylpolysiloxane | Rt™-2330 |
| G9 | methylvinylpolysiloxane | UCW 98 |
| G10 | polyamide | polyamide |
| G11 | bis(2 ethylhexyl) sebecate polyester | bis(2 ethylhexyl) sebecate polyester |
| G12 | phenyldiethanolamine succinate polyester | phenyldiethanolamine succinate polyester |
| G13 | sorbitol | sorbitol |
| G14 | polyethylene glycol (av. mol. wt. 950-1050) | Carbowax® 1000 |
| G15 | polyethylene glycol (av. mol. wt. 3000-3700) | Carbowax® 4000 |
| G16 | polyethylene glycol compound (av. mol. wt. 15,000), a high molecular weight compound of polyethylene glycol and a diepoxide linker | Carbowax® 20M |
| G17 | 75% phenyl-25% methylpolysiloxane | OV®-25 |
| G18 | polyalkylene glycol | UCON® LB 550X |
| G19 | 25% phenyl-25% cyanopropyl-50% methylsilicone | OV® 225 |
| G20 | polyethylene glycol (av. mol. wt. 380-420) | Carbowax® 400 |
| G21 | neopentyl glycol succinate | neopentyl glycol succinate |
| G22 | bis(2 ethylhexyl) phthalate | bis(2 ethylhexyl) phthalate |
| G23 | polyethylene glycol adipate | EGA |
| G24 | diisodecyl phthalate | diisodecyl phthalate |
| G25 | polyethylene glycol compound TPA, a high molecular weight compound of a polyethylene glycol and a diepoxide that is esterified with terephthalic acid | Carbowax® 20M TPA |
| G26 | 25% 2-cyanoethyl-75% methylpolysiloxane | Rt™-XE 60 |
| G27 | 5% phenyl-95% methylpolysiloxane | SE-52 |
| G28 | 25% phenyl-75% methylpolysiloxane | DC 550 |
| G29 | 3,3'-thiodipropionitrile | TDPN |
| G30 | tetraethylene glycol dimethyl ether | tetraethylene glycol dimethyl ether |
| G31 | nonylphenoxypoly(ethyleneoxy)ethanol (av. ethyleneoxy chain length is 30): nonoxynol 30 | Igepal® CO 880 |
| G32 | 20% phenylmethyl-80% dimethylpolysiloxane | OV®-7 |
| G33 | 20% Carborane®-80% methylsilicone | Dexsil® 300 |
| G34 | diethylene glycol succinate polyester stabilized with phosphoric acid | Rt™-DEGS PS |
| G35 | a high molecular weight compound of a polyethylene glycol and a diepoxide that is esterified with nitroterephthalic acid | Rt™-1000 |
| G36 | 1% vinyl-5% phenylmethylpolysiloxane | SE 54, Rtx®-5 |
| G37 | polyimide | polyimide |
| G38 | phase G1 containing a small amount of tailing inhibitor | Rt™-2100/0.1% Carbowax® 1500 |
| G39 | polyethylene glycol (av. mol. wt. 1500) | Carbowax® 1500 |
| G40 | ethylene glycol adipate | Rt™-EGA |
| USP | Support Description | Restek-Supplied Equivalent |
| S1A | siliceous earth, see method for details on treatment | Silcoport™ W |
| S1AB | siliceous earth, treated as S1A and both acid- and base-washed | Silcoport™ WBW |
| S1C | crushed firebrick, calcined or burned with a clay binder >900°C, acid-washed, may be silanized | Chromosorb® PAW or PAW DMDCS |
| S1NS | untreated siliceous earth | Chromosorb® W- Non Acid Washed |
| S2 | styrene-divinylbenzene copolymer with nominal surface area of less than 50m ² /g and an av. pore diameter of 0.3 to 0.4µm | Chromosorb® 101 |
| S3 | ethylvinylbenzene-divinylbenzene copolymer with nominal surface area of 500 to 600m ² /g and an av. pore diameter of 0.0075µm | Hayesep® Q |
| S4 | styrene-divinylbenzene copolymer with aromatic -O and -N groups having a nominal surface area of 400 to 600m ² /g and an av. pore diameter of 0.0076µm | Hayesep® R |
| S5 | high molecular weight tetrafluorethylene polymer, 40- to 60-mesh | Chromosorb® T |
| S6 | styrene-divinylbenzene copolymer having a nominal surface area of 250 to 350m ² /g and an av. pore diameter of 0.0091µm | Chromosorb® 102 |
| S7 | graphitized carbon having a nominal surface area of 12m ² /g | CarboBlack C |
| S8 | copolymer of 4-vinyl-pyridine and styrene-divinylbenzene | Hayesep® S |
| S9 | porous polymer based on 2,6-diphenyl-p-phenylene oxide | Tenax TA |
| S10 | highly cross-linked copolymer of acrylonitrile and divinylbenzene | HayeSep® C |
| S11 | graphitized carbon having a nominal surface area of 100m ² /g, modified with small amounts of petrolatum and polyethylene glycol compound | CarboBlack B 80/120 3% Rt 1500 |
| S12 | graphitized carbon having a nominal surface area of 100m ² /g | CarboBlack B |