TRAJAN

SGE Analytical Science

# USP GC PHASE GC COLUMN DATA

| USP PHASES | TRAJAN(SGE) PHASE RECOMMENDATION |
|---|---|
| G1 | BP1 |
| G2 | BP1 |
| G3 | BPX50 |
| G5 | BPX70 |
| G8 | BPX70 |
| G9 | BP1 |
| G14 | BP20(WAX) / Sol-gel (Wax) |
| G15 | BP20(WAX) / Sol-gel (Wax) |
| G16 | BP20(WAX) / Sol-gel (Wax) |
| G17 | BPX50 |
| G20 | BP20(WAX) / Sol-gel (Wax) |
| G25 | BP21(FFAP) |
| G27 | BPX5 / BP5 |
| G28 | BPX35 |
| G32 | BPX35 |
| G35 | BP21(FFAP) |
| G36 | BPX5 / BP5 |
| G38 | BP1 |
| G39 | BP20(WAX) / Sol-gel (Wax) |
| G41 | BPX5 |
| G42 | BPX35 |
| G43 | BP624 |
| G46 | BP10 |
| G48 | BPX70 |

# TRAJAN (SGE) GC Columns Phases Details

| Phase | Description | Phase Attribute | Polarity | Operation Temp. |
|---|---|---|---|---|
| BP1 | 100% Dimethyl Polysiloxane | General -Purpose Column; Low Bleed | Non - Polar | 0.1-1.0um- 60C to 340/360C: 1.5-5.0um -60C to 280 / 300C |
| BPX1 | 100% Dimensionally Stabilized methylpolysiloxane | Ideal for simulated distillations (e.g ASTM D2887 in the petroleum Industry) | Non - Polar | 0.1um Film to 430C: 0.9um film to 400C: 2.65um film to 370C |
| BPX5 | 5% Phenyl Polysilphenylenesiloxane | Ideal for GC-MS, ECD : Ultra Low Bleed | Non - Polar | -40 to 360/370C |
| BP5 | 5% Phenyl 95% Dimethyl Polysiloxane | General Purpose Column : Low Bleed | Non - Polar | 0.25-1.5um 340/350C >= 1.5um 280/300C |
| BP5MS | 5% Phenyl Polysilphenylene - Siloxane | General Purpose MS Analys Column | Non - Polar | -40 to 330/350C |
| HT5 | 5% Phenyl Polysiloxane -carborane | High Temperature; Well Suited to the Petroleum : C5 -C120 Analysis | Non - Polar | Polyimide Clad 0.1-1.0um 10C to 380/400C: Aluinum Clad 0.1-0.5um 10C to 460/480C |
| HT8 | 8% Phenyl Polysiloxane - carborane | Ideal for PCB Analysis : Low Bleed | Non - Polar | 0.1-1.0um - 20C to 360/370C |
| BP10 (1701) | 14% Cyanoproplyphenyl | Used in environmental analysis : Low bleed | Moderately Polar | -20C to 280/300C |
| BPX35 | 35% Phenyl Polysilphenylene - siloxane | Ultra Low Bleed; Ideal for Pesticides/ herbicides | Moderately Polar | 0.1-1.0um 0c to 360/370C |
| BPX50 | 50% Phenyl Polysilphenylensiloxane | ultra Low Bleed; Ideal for Pharmaceuticals | Moderately Polar | 0.1-1.0um 0C to 360/370C |
| BP20 (WAX) | Polyethylene glycol | Suitable for use in GC-MS Systems; alcohols / free acids | Polar | 0.1-<1.0um 20C to 260/280C; >=1.um 240/260C |
| BP21 (FFAP) | Polyethylene glycol | Bonded FFAP; Alcohols / free Acids | Polar | 0.0-1.0m 35C to 240/260C |
| BPX70 | 70% Cyanopropyl Polysilphenylenesiloxane | Optimized for FAME; Lowe bleed | Highly Polar | 0.1-1.0um 50C to 250/260C |
| BPX608 | 35% Phenyl Polysilphenylene - siloxane | Optimized for separation of EPA 608 organics Chlorinated Pesticides | Moderately Polar | 0C to 360/370C |
| BP624 | Cyanoproplyphenyl Dimethyl Polysiloxane | Optimized for Analysis of EPA Drinking water target components | Slightly Polar | 1.4um - 0c to 230/240C, 1.8um - 0C to 230/240C, 3.0um - 0C to 230/240C |
| BPX - VOLATILES | Cyanopropyl Polysilphenylene | Optimized for Analysis of EPA Volatile Organics analysis | Polar | 0C to 290/300C |
| BP1-PONA | 100% Dimethyl Polysiloxane | Optiminzed for the analysis of gasoline hydrocarbons | Non - Polar | -60C to 280/300C |
| SolGel - 1ms™ | 100% Dimethyl polysiloxane in a Sol-Gel Matrix | High Temperature insert GC MS Column | Non - Polar | 0C to 380C |
| SolGel - WAX™ | Polyethylene glycol in a Sol -Gel Matrix | High Temperature insert GC MS | Polar | -30C to 300C |
| CYDEX- B | Permethylated Betacyclodextrin in OV1701 | Chiral Separations | - | 30C to 220/240C |
| BPX90 | 90% Cyanopropyl Polysilphenylene-siloxane | Unique Bonded Phase | Highly Polar | 80C to 260 / 280C |
| BPX - BIOD | BPX-BIOD GC column is tested at the maximum operating temperature for the colum | Optimozed for Specified ASTM and EN Biodiesel | Non - Polar | -40C to 360/370C |
| BPX - DXN | Unique High Temperature Column | Dioxins and related Compounds, Ideal for GC-MS | Non - Polar | -40C to 360/370C |
| BPX-PCB | 8% Phenyl Polycarbonrane -Siloxane | Unique High Trmperature analysis of POPs. | - | 20C to 360/370C |