

## Capillary GC Columns and Guard Columns/Retention Gaps

Columns by Phase Polarity *Intermediate Polarity*

### OVI-G43 Capillary GC Column

**Application:** This column is specially prepared and tested to meet the requirements of United States Pharmacopoeia and European Pharmacopoeia methods for determining residual solvents in pharmaceutical preparations.

**USP Code:** This column meets USP G43 requirements.

**Phase:**

- Bonded
- Poly(6% cyanopropylphenyl/94% dimethyl siloxane)

**Temp. Limits:**

- -20 °C to 260 °C (isothermal or programmed)

**Note:** To make a 5 m x 0.53 mm I.D. guard column, use P/N 25339 (fused silica tubing), P/N 23804 (butt connector body), and P/N 22591 (double-tapered ferrule).

I.D. (mm)	d <sub>f</sub> (µm)	Length (m)	Beta Value	Cat. No.	Qty
0.53	3.00	30	44	25396	1 ea

### VOCOL® Capillary GC Column

**Application:** This intermediate polarity column, designed for analyses of volatile organic compounds (VOCs), offers great retention and resolution of highly volatile compounds. Use this column in direct injection ports or coupled to purge and trap systems.

**USP Code:** None

**Phase:**

- Bonded
- Proprietary

**Temp. Limits:**

- ≤0.32 mm I.D., <2 µm: Subambient to 250 °C (isothermal or programmed)
- ≤0.32 mm I.D., ≥2 µm: Subambient to 230 °C (isothermal or programmed)
- ≥0.53 mm I.D., <2 µm: Subambient to 250 °C (isothermal or programmed)
- ≥0.53 mm I.D., ≥2 µm: Subambient to 230 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (µm)	Length (m)	Beta Value	Cat. No.	Qty
0.18	1.00	20	45	28463-U	1 ea
0.20	1.20	10	42	24129-U	1 ea
0.25	1.50	30	42	24205-U	1 ea
	1.50	60	42	24154	1 ea
0.32	1.80	30	44	28464-U	1 ea
	1.80	60	44	24217-U	1 ea
0.53	3.00	60	27	24157	1 ea
	3.00	30	44	25320-U	1 ea
0.53	3.00	60	44	25381	1 ea
	3.00	105	44	25358	1 ea
0.75	1.50	60	125	23313-U	1 ea

### SPB®-20 Capillary GC Column

**Application:** This column has intermediate polarity due to the higher (20%) phenyl content, producing a different elution order of polar compounds for confirmational information. It is often used for analyses of aromatic analytes.

**USP Code:** This column meets USP G32 requirements.

**Phase:**

- Bonded
- Poly(20% diphenyl/80% dimethyl siloxane)

**Temp. Limits:**

- -25 °C to 300 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (µm)	Length (m)	Beta Value	Cat. No.	Qty
0.25	0.25	30	250	24086	1 ea
	0.25	60	250	24087-U	1 ea
	1.00	30	63	24196-U	1 ea
0.32	0.25	30	320	24088	1 ea
	1.00	60	80	24194-U	1 ea
0.53	0.50	30	265	25329-U	1 ea
	1.00	15	133	28569-U	1 ea
	1.00	30	133	25333	1 ea

### Equity®-1701 Capillary GC Column

**Application:** Increased phase polarity, due to cyanopropylphenyl functional group substitution, offers unique selectivity compared to other phases. This column works well with systems employing ECD, NPD, and MSD detectors, and is often used for alcohols, oxygenates, pharmaceuticals, pesticides, and PCB applications.

**USP Code:** This column meets G46 requirements

**Phase:**

- Bonded
- Poly(14% cyanopropylphenyl/86% dimethyl siloxane)

**Temp. Limits:**

- ≤0.32 mm I.D.: Subambient to 280 °C (isothermal or programmed)
- ≥0.53 mm I.D.: Subambient to 260 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (µm)	Length (m)	Beta Value	Cat. No.	Qty
0.10	0.10	15	250	28343-U	1 ea
0.25	0.25	15	250	28371-U	1 ea
	0.25	30	250	28372-U	1 ea
	0.25	60	250	28373-U	1 ea
	1.00	15	63	28374-U	1 ea
	1.00	30	63	28378-U	1 ea
	1.00	60	63	28379-U	1 ea
0.32	0.25	30	320	28382-U	1 ea
	0.25	60	320	28384-U	1 ea
	1.00	30	80	28387-U	1 ea
	1.00	60	80	28388-U	1 ea
0.53	0.50	30	265	28391-U	1 ea
	1.00	15	133	28393-U	1 ea
	1.00	30	133	28394-U	1 ea
	1.50	30	88	28396-U	1 ea

### SPB®-608 Capillary GC Column

**Application:** This column is specially tested with low concentrations of 18 chlorinated pesticides, using an ECD detector. In addition to selectivity and efficiency, it is also tested to ensure minimum breakdown of 4,4'-DDT and endrin. This column is also suitable for use in herbicide analyses.

**USP Code:** None

**Phase:**

- Bonded
- Proprietary

**Temp. Limits:**

- Subambient to 300 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (µm)	Length (m)	Beta Value	Cat. No.	Qty
0.25	0.25	30	250	24103-U	1 ea
	0.25	60	250	23314-U	1 ea
0.53	0.50	15	265	25310-U	1 ea
	0.50	30	265	25312	1 ea