

Capillary GC Columns and Guard Columns/Retention Gaps

Columns by Phase Polarity: *Highly Polar*

SP™-2560 Capillary GC Column

Application: This highly polar biscyanopropyl column was specifically designed for detailed separation of geometricpositional (cis/trans) isomers of fatty acid methyl esters (FAMES). It is extremely effective for FAME isomer applications.

USP Code: This column meets USP G5 requirements.

Phase:

- Non-bonded
- Poly(biscyanopropyl siloxane)

Temp. Limits:

- Subambient to 250 °C (isothermal or programmed)

I.D. (mm)	d _f (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.18	0.14	75	321	23348-U	1 ea
0.25	0.20	100	313	24056	1 ea
	0.20	100	313	23362-U	1 ea

Note: P/N 23362-U is wound on a 5" cage designed to fit an Agilent 6850 GC.

SP™-2340 Capillary GC Column

Application: This non-bonded column offers the highest polarity in its class. As with all general purpose biscyanopropyl columns, it is highly effective for both high and low temperature separations of geometric isomers of fatty acid methyl esters (FAMES), dioxins, carbohydrates, and aromatic compounds.

USP Code: This column meets USP G5 requirements.

Phase:

- Non-bonded
- Poly(biscyanopropyl siloxane)

Temp. Limits:

- Subambient to 250 °C (isothermal or programmed)

I.D. (mm)	d _f (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.25	0.20	15	313	24021	1 ea
	0.20	30	313	24022	1 ea
	0.20	60	313	24023	1 ea
0.32	0.20	30	400	24075	1 ea
	0.20	60	400	24076	1 ea

NEW PRODUCTS

SLB®-IL82 Capillary GC Column

Application: This highly polar ionic liquid column is most similar in polarity to non-ionic liquid columns that contain a polysiloxane phase with a high percentage of cyanopropyl pendent groups. It provides an alternate selectivity to these cyanopropyl siloxane columns, and is less susceptible to damage from oxygen/moisture. Launched in 2010.

USP Code: None

Phase:

- Non-bonded
- 1,12-Di(2,3-dimethylimidazolium)dodecane bis(trifluoromethylsulfonyl) imide

Temp. Limits:

- 50 °C to 270 °C (isothermal or programmed)

I.D. (mm)	d _f (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.10	0.08	15	313	29477-U	1 ea
0.25	0.25	30	313	29479-U	1 ea

TCEP Capillary GC Column

Application: The unique chemistry of the phase allows for specialized separations. It is often used for analyses of alcohols and aromatics in mineral spirits, aliphatic constituents in gasoline, impurities in individual aromatics, and oxygenates.

USP Code: None

Phase:

- Non-bonded
- 1,2,3-tris(2-cyanoethoxy)propane

Temp. Limits:

- Subambient to 145 °C (isothermal or programmed)

I.D. (mm)	d _f (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.25	0.44	60	142	24153	1 ea
0.32	0.51	60	157	24161	1 ea

SLB®-IL100 Capillary GC Column

Application: This highly polar column was the world's first commercially available ionic liquid GC column. It serves as the benchmark of 100 on our GC column polarity scale. Compared to a TCEP column (almost identical polarity/selectivity), the SLB-IL100 is more thermally stable, plus more resistant to damage from moisture/oxygen. Launched in 2008.

USP Code: None

Phase:

- Non-bonded
- 1,9-Di(3-vinylimidazolium)nonane bis(trifluoromethylsulfonyl)imide

Temp. Limits:

- Subambient to 230 °C (isothermal or programmed)

I.D. (mm)	d _f (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.10	0.08	15	313	28882-U	1 ea
0.18	0.14	20	313	28883-U	1 ea
	0.20	30	313	28884-U	1 ea
0.25	0.20	60	313	28886-U	1 ea
	0.26	30	313	28887-U	1 ea
0.32	0.26	60	313	28888-U	1 ea