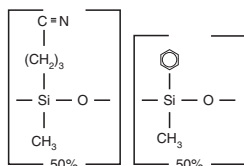


Rtx[®]-225
Structure**Rtx[®]-225** (polar phase; Crossbond[®] 50% cyanopropylmethyl/50% phenylmethyl polysiloxane)

- General purpose columns for FAMES, carbohydrates, sterols, flavor compounds.
- Temperature range: 40°C to 240°C.
- Equivalent to USP G7, G19 phases.

The cyanopropyl-containing Rtx[®]-225 phase is slightly less polar than bonded polyethylene glycol (PEG) phases, but it can be used for many of the same applications. Some popular applications for the Rtx[®]-225 column are analyses of fatty acid methyl esters (FAMES), sugar derivatives, and food and flavor compounds.

Improvements to the Rtx[®]-225 polymer have increased thermal stability, reduced bleed, and improved inertness. The Rtx[®]-225 column provides a 20°C thermal stability advantage over other "225" columns because of our unique polymer synthesis technology and proprietary siloxane deactivation. In most similar columns, the Carbowax[®] deactivation layer is not fully compatible with the cyanopropyl siloxane polymer, which can cause adsorption, tailing of active compounds, and lower efficiency.

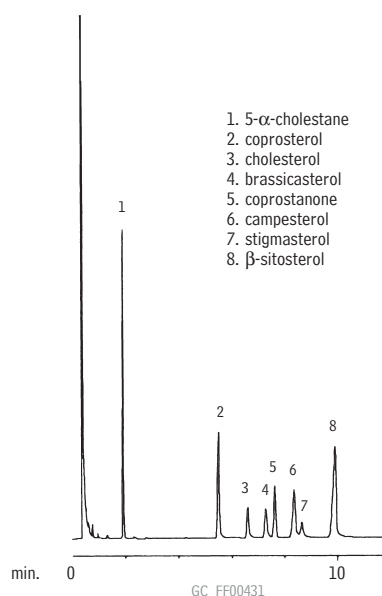
Rtx[®]-225 Columns (fused silica)(Crossbond[®] 50% cyanopropylmethyl/50% phenylmethyl polysiloxane)

ID	df (μm)	temp. limits*	15-Meter	30-Meter	60-Meter
0.25mm	0.10	40 to 220/240°C	14005	14008	
	0.25	40 to 220/240°C	14020	14023	14026
	0.50	40 to 220/240°C	14035	14038	14041
0.32mm	0.10	40 to 220/240°C	14006	14009	
	0.25	40 to 220/240°C	14021	14024	14027
	0.50	40 to 220/240°C	14036	14039	14042
	1.00	40 to 200/220°C	14051	14054	14057
0.53mm	0.10	40 to 200/220°C	14007	14010	
	0.25	40 to 200/220°C	14022	14025	
	0.50	40 to 200/220°C	14037	14040	14043
	1.00	40 to 200/220°C	14052	14055	14058

*Maximum temperatures listed are for 15- and 30-meter lengths. Longer lengths may have a slightly reduced maximum temperature.

similar phases

DB-225, HP-225, SPB-225

Neutral sterols resolved on an Rtx[®]-225 column.

Column: Rtx[®]-225, 15m, 0.25mm ID, 0.25μm (cat. # 14020)
 Inj.: 1.5μL split injection of neutral sterols and phytosterols, 200ng on-column
 Oven temp.: 260°C
 Inj./det. temp.: 260°C
 Carrier gas: helium
 Linear velocity: 45cm/sec. set @ 240°C
 FID sensitivity: 8 x 10⁻¹¹ AFS
 Split ratio: 30:1



Scott Grossman
 Innovations Chemist
 1+ years of service!