

## Polyunsaturated FAME Analysis

### FAMEWAX (polar phase; Crossbond® polyethylene glycol)

- Application-specific columns for FAMEs, specially tested with a FAME mixture.
- Temperature range: 20°C to 250°C.

The elution order of polyunsaturated FAMEs on FAMEWAX columns is comparable to that on other Carbowax® columns, but baseline resolution is achieved in significantly less time.

### FAMEWAX Columns (fused silica)

(Crossbond® polyethylene glycol)

ID	df (µm)	temp. limits	30-Meter
0.25mm	0.25	20 to 250°C	12497
0.32mm	0.25	20 to 250°C	12498
0.53mm	0.50	20 to 250°C	12499

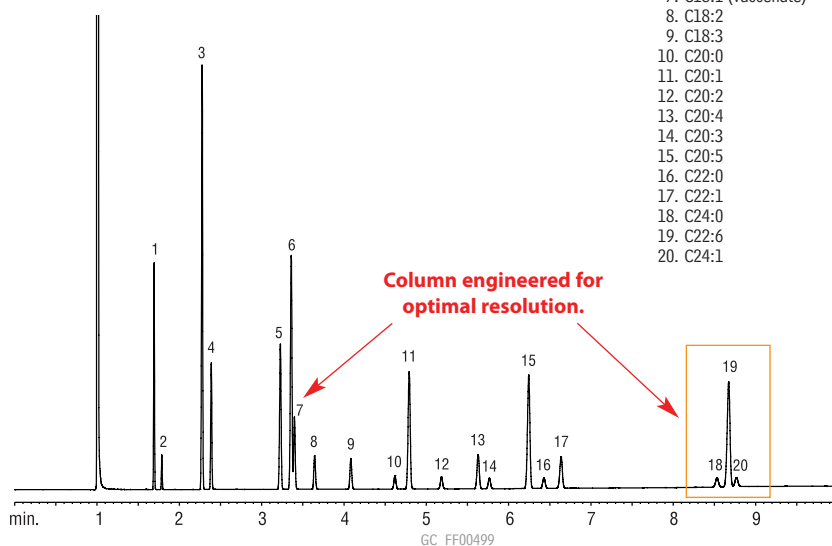
similar **phase**

Omegawax

### FAMEs (marine oil standard) on a FAMEWAX column.

Column: FAMEWAX, 30m, 0.32mm ID, 0.25µm (cat. # 12498)  
 Inj.: 1µL  
 Conc.: 10,000µg/mL in iso-octane (total FAMES; see breakdown in peak list)  
 Oven temp.: 195–240°C at 5°C/min., 1 min. hold  
 Inj./det. temp.: 250°C/275°C  
 Carrier gas: hydrogen  
 Flow rate: 3mL/min. (constant flow)  
 Split ratio: 100:1

Peak List	Conc. (µg/mL)
1. C14:0	600
2. C14:1	100
3. C16:0	1600
4. C16:1	500
5. C18:0	800
6. C18:1 (oleate)	1300
7. C18:1 (vaccenate)	400
8. C18:2	200
9. C18:3	200
10. C20:0	100
11. C20:1	900
12. C20:2	100
13. C20:4	300
14. C20:3	100
15. C20:5	1000
16. C22:0	100
17. C22:1	300
18. C24:0	100
19. C22:6	1200
20. C24:1	100



free literature

### Foods, Flavors, and Fragrances

Includes important analysis tips and chromatograms for analysis of fats and oils, carbohydrates, vitamins, amino acids, organic acids, preservatives, flavors and fragrances, essential oils, and chiral separations. Retention time indices and complete product listings for all relevant GC and HPLC products also are included.

Minicatalog  
 lit. cat.# 59260A

### Monitoring Volatile Compounds in Food Contact Packaging, Using Purge and Trap GC/MS and an Rtx®-5MS Capillary Column

Download your free copy from [www.restek.com](http://www.restek.com)

Applications Note  
 lit. cat.# 59348

## Flavor and Fragrance Compounds Analysis

### Rt™-CW20M F&F (polar phase; Carbowax® polyethylene glycol—not bonded)

- Application-specific columns for flavor and fragrance compounds, specially tested.
- True non-bonded Carbowax® 20M polarity.
- Temperature range: 20°C to 220°C.

### Rt™-CW20M F&F Columns (fused silica)

(Carbowax® polyethylene glycol)

ID	df (µm)	temp. limits	30-Meter	50-Meter
0.25mm	0.25	60 to 220°C	12523	
0.32mm	0.33	60 to 220°C		12539

similar **phases**

HP-20M, Carbowax® 20M

## Flavor &amp; Fragrance Compounds Analysis

please **note**

Our Rt™-CW20M F&F column is the perfect confirmation column for flavor and fragrance analysis. See page 63.

**Rtx®-1 F&F** (nonpolar phase; Crossbond® 100% dimethyl polysiloxane)

- Application-specific columns for flavor and fragrance compounds.
- Stable to 350°C.

Retention index libraries in the flavor and fragrance industry have been compiled from years of data and thousands of compounds. Any slight variation in column selectivity could render the column useless. Rtx®-1 F&F columns are tailored to match the selectivity required in the industry, while offering excellent thermal stability. Our stringent quality testing ensures column-to-column reproducibility and extended column lifetimes over conventional 100% dimethyl polysiloxane columns.

**Rtx®-1 F&F Columns** (fused silica)

(Crossbond® 100% dimethyl polysiloxane)

ID	df (µm)	temp. limits	15-Meter	30-Meter	50-Meter	60-Meter
HP-1	0.25mm	0.25	-60 to 330/350°C		18023	18026
		0.50	-60 to 330/350°C		18038	18041
		1.00	-60 to 320/340°C		18053	18056
0.32mm	0.25	0.25	-60 to 330/350°C		18024	18027
		0.50	-60 to 330/350°C		18039	18042
		1.00	-60 to 320°C		18054	18057
0.53mm	0.50	0.50	-60 to 310/330°C	18037	18040	18043
		1.00	-60 to 310/330°C	18052	18055	18058
		1.50	-60 to 310/330°C	18067	18070	18073

similar **phase**

HP-1

**Fused Silica Manufacturing Group**

Jason Fisher, Sheldon McMurtrie, Michele Richner, Tom Barone, Ken Kline, Linda Holden, Tom Gurecki, Jack Haesler, Aaron Decker, Carolyn Williams, Dale Lucas, Kelsea Miller



Raymond Ciampichini, Pete Rose, David Rhodes, Jackie Glasgow, Kim Shaffer, Marcia Fulton, Santina Newlen, David W. Rhodes, Henry Knepp, Russ Stewart, Jessica Andrus, Tim Wilson, Bob Langford

## Triglycerides in Foods Analysis

**Rtx®-65TG** (high polarity phase; Crossbond® 65% diphenyl/35% dimethyl polysiloxane)

- Application-specific columns, specially tested for triglycerides.
- Stable to 370°C.

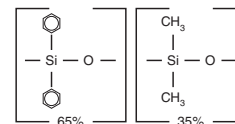
The Rtx®-65TG phase resolves triglycerides by degree of unsaturation as well as by carbon number. Because of the chemistry required to achieve 370°C thermal stability, an Rtx®-65TG column should not be used for analyses of polar compounds.

**Rtx®-65TG Columns** (fused silica)

(Crossbond® 65% diphenyl/35% dimethyl polysiloxane)

ID	df (μm)	temp. limits	15-Meter	30-Meter
0.25mm	0.10	40 to 370°C	17005	17008
0.32mm	0.10	40 to 370°C	17006	17009
0.53mm	0.10	40 to 370°C	17007	17010

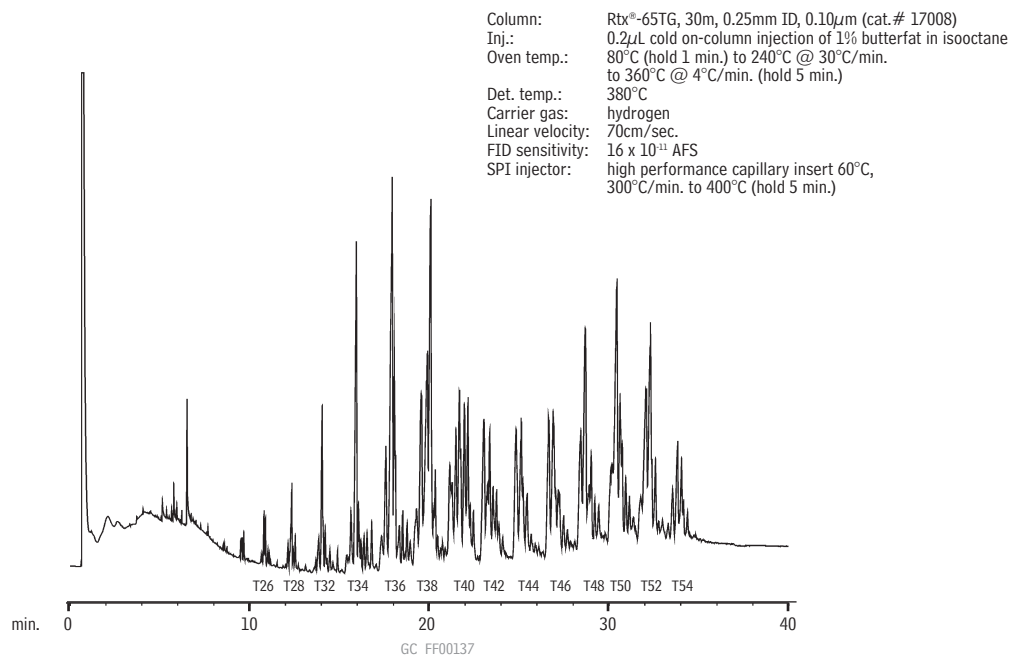
**Rtx®-65TG  
Structure**



save **money!**

Get six columns for the price of five. Call **800-356-1688, ext. 4**, or your Restek representative for details!

### Sharp resolution of butter triglycerides on an Rtx®-65TG column.



crossbond®  
**technology**

reduces bleed, prolongs column lifetime, and allows rejuvenation through solvent rinsing.

please **note**

Triglycerides are often injected via on-column injection. Use 0.53mm retention gaps and appropriate connectors.

- Vu2 Union® (page 222)
- MXT™-Union Connector Kits for Fused Silica (page 225)

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