

Speed Up and Simplify GC Method Development with the EZGC Online Software Suite

- Develop new methods in minutes directly from your desk.
- Optimize or modify existing methods reliably and without guesswork.
- Increase productivity—free, easy-to-use online software saves time and increases certainty.

Pro EZGC Chromatogram Modeler

Carrier Gas: Helium

Column: Rxi-624Sil MS

Length: 30.00 m
Inner Diameter: 0.25 mm
Film Thickness: 1.40 μm

Control Parameters

Column Flow: 2.00 mL/min
Average Velocity: 40.97 cm/sec
Holdup Time: 1.22 min
Inlet Pressure: 19.94 psi
Outlet Pressure: 14.70 psi

Oven Program

Number of Ramps (1-3)	Ramp Rate (°C/min)	Temp (°C)	Hold Time (min)
2	33	3	0
	30	60	0
	4	205	0

Peaks

Peak	Retention Time (min)	Retention Time (min)	Peak Width (min)	Peak Temperature (°C)
1. Dichlorodifluoromethane	1.45	10.7	0.016	35.0
2. Chloromethane	1.43	10.7	0.019	35.0
3. Bromomethane	2.13	5.2	0.026	35.0
4. Chloroethane	2.27	5.2	0.028	35.0

TASIA AWARD WINNER

EZGC Method Translator

Carrier Gas	Original	Translation
Helium	Helium	Helium

EZGC Flow Calculator

Carrier Gas: Helium

Column

Length: 30.00 m
Inner Diameter: 0.25 mm
Film Thickness: 0.25 μm
Temperature: 40.00 °C

Control Parameters

Outlet Flow: 1.40 mL/min
Average Velocity: 42.24 cm/sec
Holdup Time: 1.17 min
Inlet Pressure: 11.42 PSI
Outlet Pressure: 0.00 PSI

Inlet

Temperature: 250.00 °C
Liter Volume: 1.00 mL
Flow: 1.00 mL/min
Solvent Valve Time: 1.1 to 2.5 min

Language

- DE Deutsch
- EN English
- ES Español
- FR Français
- IT Italiano
- JA 日本語
- NL Nederlands
- PT Português
- ZH 简体中文

Now in multiple languages!

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Propel Method Development Forward with the New Pro EZGC Chromatogram Modeler

This new and improved version of our popular EZGC chromatogram modeler for polymer capillary columns is just as simple to use as the original, but it now offers advanced options for selecting phases, changing carrier gases and control parameters, further optimizing your results, and much more! Already a favorite of analysts around the world, the updated software helps you develop new methods or optimize existing ones more efficiently and effectively than ever before.

You asked and we listened! Based on user feedback, our new Pro EZGC chromatogram modeler now lets you do the following:

- Start with either the column you have or a column recommended by the program.
- Select compounds from our libraries or bring your own list.
- Target specific compounds for resolution.
- Alter the GC conditions to optimize your model quickly and easily.
- Repeatedly refine the temperature program.
- Switch carrier gases.
- Change the control method (constant flow, pressure, or linear velocity).
- View elution temperatures in the peak list.
- See results for multiple phases.

In just seconds, you can generate a customized, interactive model chromatogram that matches real-world chromatograms with exceptional accuracy. Zoom in, view chemical structures, and even overlay the mass spectra of coeluting compounds.

Peaks	t_R (min)	R_s	Peak Width (min)	T_{peak} (°C)
1. Dichlorodifluoromethane	1.45	10.7	0.016	35.0
2. Chloromethane	1.63	10.7	0.019	35.0
3. Bromomethane	2.13	5.2	0.026	35.0
4. Chloroethane	2.27	5.2	0.028	35.0
5. Ethanol	2.80	3.6	0.034	35.0
6. Ethyl ether	2.93	3.6	0.036	35.0
7. Acrolein	3.12	2.9	0.036	38.5
8. 1,1-Dichloroethene	3.22	1.3	0.035	41.6
9. 1,1,2-Trichloro-1,2,2-Trifluoroethane	3.27	0.7	0.035	43.0
10. Acetone	3.29	0.7	0.034	43.8
11. Iodomethane	3.38	2.6	0.034	46.5
12. Isopropyl Alcohol	3.47	0.2	0.032	49.2
13. Carbon disulfide	3.48	0.2	0.034	49.5

NEW!

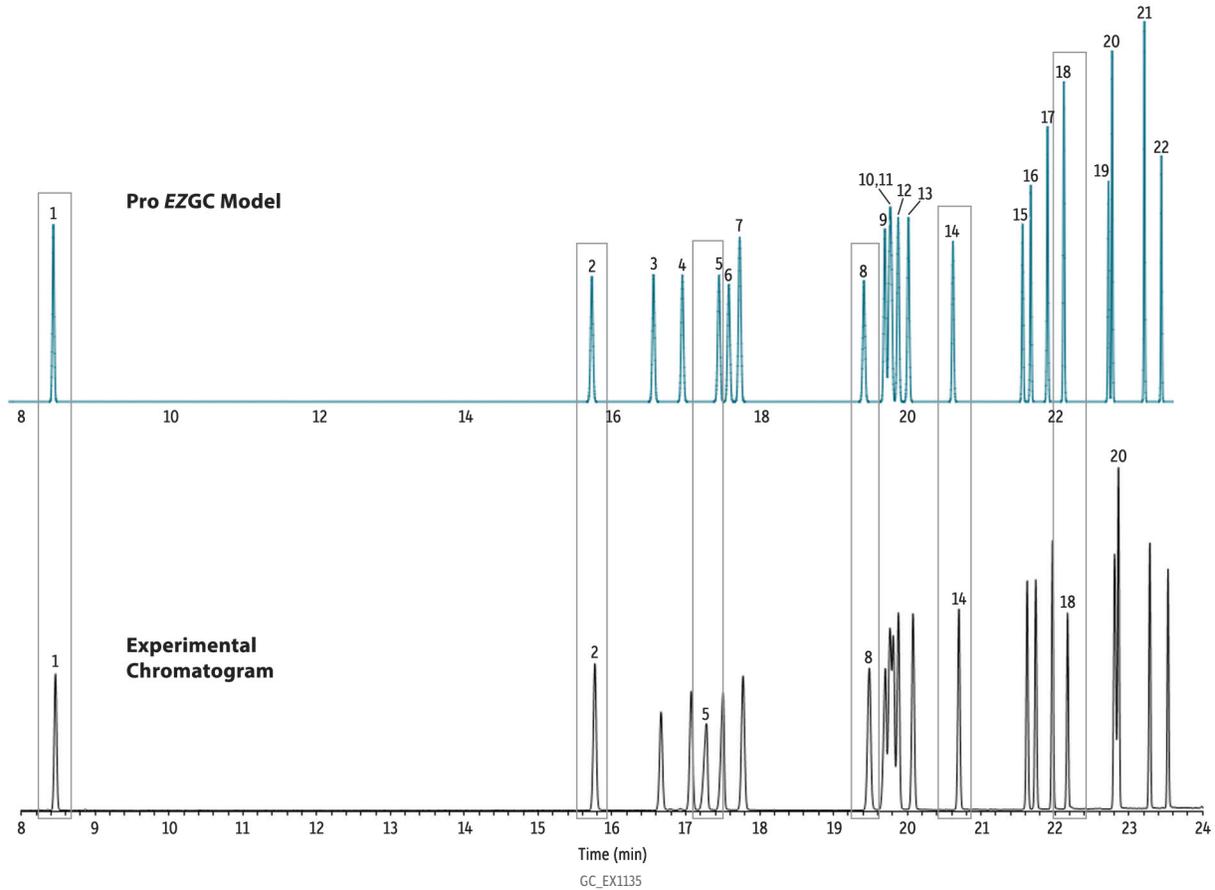
YOU NEED: To develop a method from scratch, including the column and conditions.

YOU HAVE: An analyte list (and you may have a column in mind, too).

YOU GET: Customized, interactive model chromatograms that provide a specific phase, column dimension, and conditions. You can change columns, modify conditions, zoom in, view chemical structures, and even overlay mass spectra of coeluting compounds.

Try our instructional videos at www.restek.com/proezgc

Here's how well a Pro EZGC model matches the actual separation!



Peaks	t _R (min)	Conc. (µg/mL)
1. EPTC	8.462	100
2. Propachlor	15.768	100
3. Ethalfuralin	16.665	100
4. Trifluralin	17.074	100
5. Desisopropyl-atrazine	17.278	100
6. Desethyl-atrazine	17.503	100
7. Phorate	17.776	100
8. Prometon	19.485	100
9. Simazine	19.702	100
10. Terbufos	19.767	100
11. Atrazine	19.810	100
12. Propazine	19.880	100
13. Fonofos	20.079	100
14. Triallate	20.700	100
15. Dimethenamid	21.624	100
16. Acetochlor	21.741	100
17. Alachlor	21.968	100
18. Metribuzin	22.172	100
19. Metolachlor	22.810	100
20. Chlorpyrifos	22.861	100
21. Cyanazine	23.286	100
22. Pendimethalin	23.532	100

Column Rtx-440, 30 m, 0.25 mm ID, 0.25 µm (cat.# 12923)
Sample Minnesota Ag List 1 pesticide kit (cat.# 32408)
Diluent: Acetone
Conc.: 100 ppm
Injection
Inj. Vol.: 1 µL split (split ratio 25:1)
Liner: 4 mm Precision liner w/wool (cat.# 23305.1)
Inj. Temp.: 300 °C
Oven
Oven Temp.: 100 °C (hold 0.5 min) to 175 °C at 4 °C/min to 250 °C at 14.5 °C/min
Carrier Gas He, constant flow
Flow Rate: 2.0 mL/min
Detector MS
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	1.6	40-350	5

Transfer Line
Temp.: 300 °C
Analyzer Type: Quadrupole
Source Type: Inert
Drawout Plate: 6 mm ID
Source Temp.: 250 °C
Quad Temp.: 180 °C
Electron Energy: 70 eV
Solvent Delay
Time: 1.6 min
Tune Type: PFTBA
Ionization Mode: EI
Instrument Agilent 7890A GC & 5975C MSD

Try the updated Pro EZGC chromatogram modeler today for an easy, risk-free way to increase your lab's productivity through faster, more effective method development and optimization. www.restek.com/proezgc

Modify Methods Quickly and with Confidence Using the EZGC Method Translator and Flow Calculator

The EZGC method translator and flow calculator tool makes it simple to switch carrier gases, change column dimensions or control parameters, or to optimize a method for speed or efficiency. Simply enter your method specifications and the program will return a full set of calculated method conditions that will provide similar chromatography. Use the EZGC method translator and flow calculator tool to optimize your analysis for speed so you can increase sample throughput!



EZGC Method Translator and Flow Calculator

YOU NEED: To switch carrier gases, to change column dimensions or control parameters, or to optimize a method for speed or efficiency.

YOU HAVE: An existing method.

YOU GET: A full set of calculated method conditions that will provide similar chromatography. Results include oven program and run time as well as average velocity, flow rate, splitless valve time, and other control parameters—all in an easy-to-use, single-screen interface with seamless transfer between tools.

Start saving time today—develop, optimize, or translate methods quickly and with confidence using Restek's EZGC online software suite!
www.restek.com/ezgc



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