

Installation procedure

- Check your filter system*. Ensure that both the injector and detector are clean.
- Open the fused silica column by cutting off the ends, using a diamond needle file (Part.No.CP22673) or a carborundum glass file (Part No. CP22672).
- Make sure that the ends of the column are long enough to reach the injector and detector. Consult your instrument manual to determine the correct insertion distances.
- Shift the nut and ferrule over the injector side of the column. Cut 0.5 - 1 cm off the column. Connect the column to the injection port
- Pressurize the column and check the flow.
- Shift the nut and ferrule over the detector side of the column. Cut 0.5 - 1 cm off the column. Connect the column to the detector.
- Check for leaks. Do not forget to check the septum.
- Flush the column at ambient temperature with a purified gas. This should be done for at least 5 minutes for a 25 meter column. 10 minutes for a 50 meter column.
- Heat the oven to approximately 10°C above your max. operating temperature but below the maximum isothermal temperature given in the test report. Recondition for 1 to 3 hours until a stable baseline is obtained.
- To check the system's performance it is advised to inject the supplied test mixture under the conditions mentioned in the test report. Similar results should be obtained.
- To check the system's performance, it is advised that you inject a test mixture under the conditions mentioned in the test report. The column testmixture used by Varian to determine column quality is recommended. If the same conditions and testmixture are used. You should achieve similar results to those shown in the testreport.
- If Helium is used as carrier gas rather than Hydrogen, then the retention times of all components will be approximately a factor 2 higher.
- All Capillary Columns from Varian are equipped with EZ-Grip rO- enhanced ease-of-use, EZ-Grip offers hassle free installation, coupling and operation of capillary columns.

Storage

- Always close the ends of the column with a septum when the column is stored.
- Store the column filled with nitrogen.
- Helium diffuses through the column at wall and a vacuum will develop during storage. When open, oxygen will enter the column!

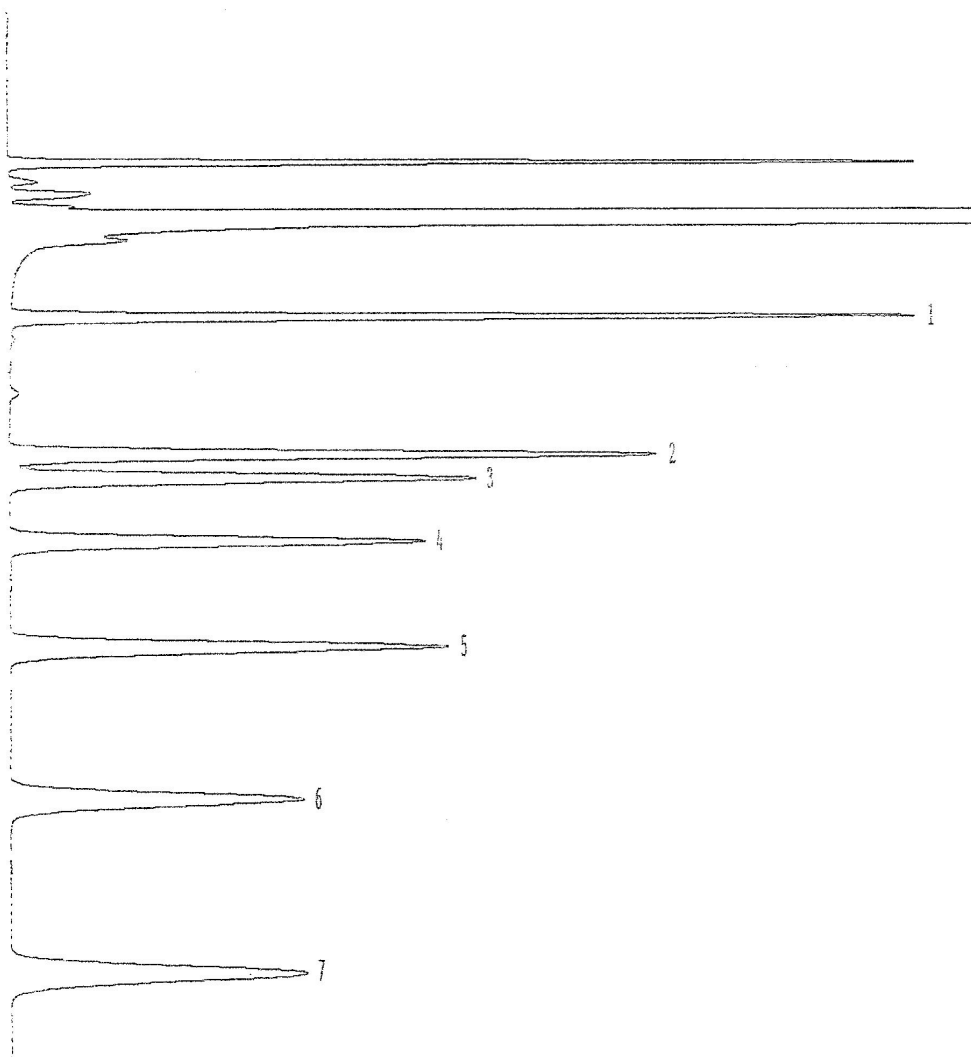
* Our columns cannot be guaranteed **IF NO PROPER CARRIER GAS FILTER ARE INSTALLED**

TEST CHROMATOGRAPHY CP7620

Column no.: 2012834

COMPOSITION OF TEST MIXTURE: 0,1% of each component in cyclohexane

ret. time (min)	peak no.	component
1.79	1	m-Xylene
2.58	2	n-Decane
2.72	3	Benzylalcohol
3.08	4	1-Octanol
3.70	5	n-Undecane
4.55	6	1-Nonanol
5.54	7	n-Dodecane




Representative chromatogram

VARIAN

Capillary Column Test Report CP7620

Production process certified according to ISO 9001 BS 5750: part 1

approved by 
134

Column Specification

Part.No	CP7620
Column type	WCOT Fused Silica
Stationary phase	CP-Sil 5 CB
Column length	10 m
Inside diameter	0.53 mm
Outside diameter	0.70 mm
Film thickness	2.00 um
Column no. printed on cage	2012834

Maximum Allowable Operating Temperature

isothermal:	305 °C
programmed:	330 °C
Bleed limit at 305 °C:	5 pA

TEST CONDITIONS

Test mixture:	CP0008
Sample size:	0.1 ul
Splitter vent:	80 ml/min
Injector temperature:	270 °C
Detector temperature:	300 °C
Column temperature:	140 °C
Detector	F. I. D.
Sensitivity:	1*10 E-11 AFS
Carrier gas:	Hydrogen
Retention time of methane:	55.2 s
Linear gas velocity:	18.1 cm/s
Inlet pressure:	3 kPa 0.44 psi

TEST RESULTS

		Specifications
k (n-D'odecane)	5.0	
Nth (n-Dodecane)	20200	
Nth/m (n-Dodecane)	2020	Nth/m ≥ 1600
Film thickness	1.95 um	
Phase ratio	68	
Retention Index (I-Nonanol)	1152.5	
As (I-Nonanol)	1.0	1.0 ≤ As ≤ 1.1