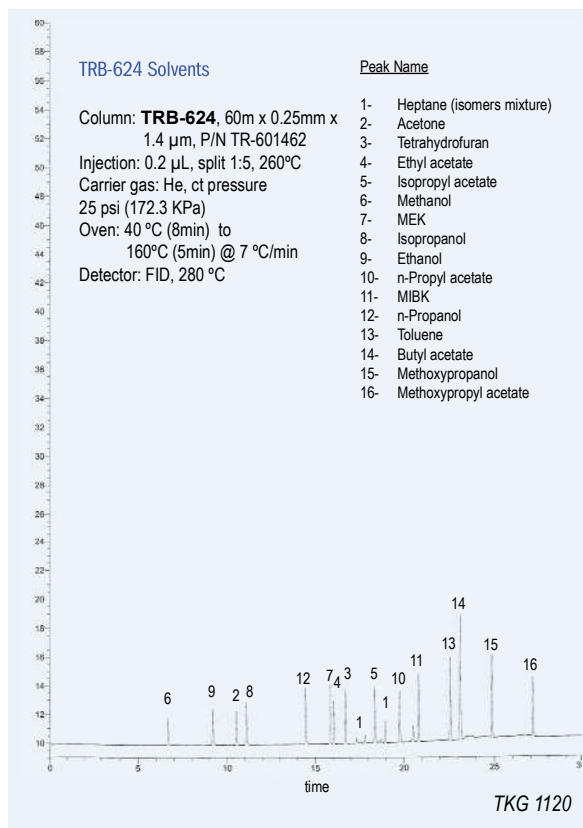




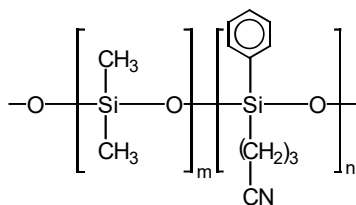
Teknokroma Capillary Columns



TRB-G43

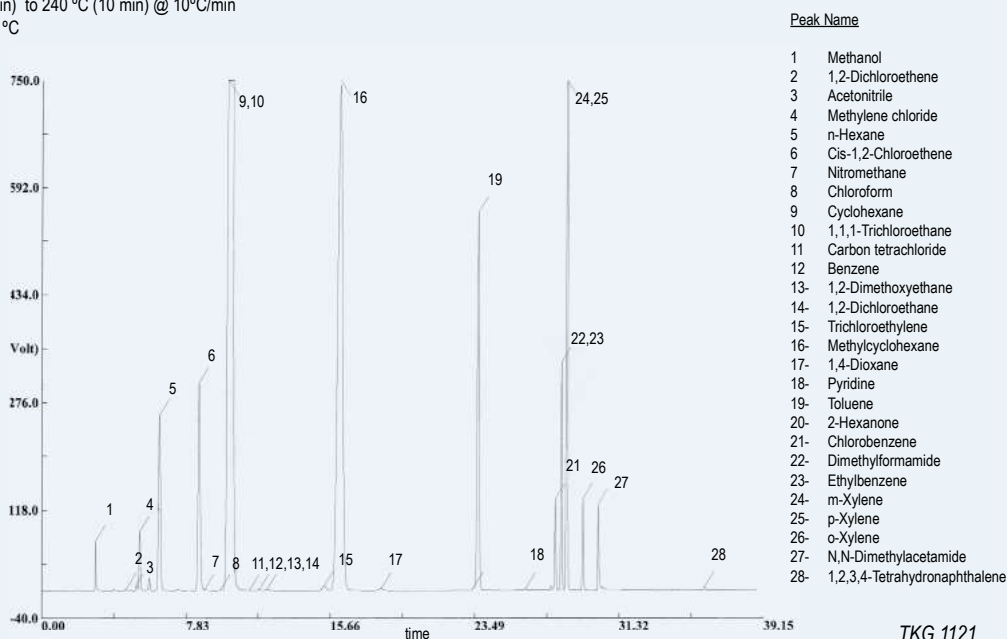
94% Dimethyl- 6% cyanopropyl-phenyl polysiloxane, bonded and crosslinked phase.

- 6% Cyanopropyl-phenyl - 94% dimethyl polysiloxane (USP G43)
- Fulfills the specifications of the American (USP) and European (EP) pharmacopoeia for the analysis of residual solvents (OVI) in pharmaceutical products, USP method <467> and EP method 2.4.24
- Column with chemical inertness and low bleed guaranteed
- Specially tested for complete separation of the five solvents regulated by USP Method 467
- For this analysis, pharmacopoeia recommends the use of a guard column of 5m (P/N TR-200055) to trap the non-volatile impurities in the sample



TRB-G43 Class 1 and Class 2 Residual Solvents

Column: **TRB-G43**, 30 m x 0.53 mm x 3.0 μ m, P/N TR-163035
Injection: split 1:2, 250 °C, 5 m x 0.53 mm intermediate polarity retention gap (TR-200055)
Sample: 0.5 mL headspace 80°C (2t static head space sampler) 28 Class 1 Mix and Class 2 Mix A, Mix B residual solvents at the regulatory limit concentration
Carrier gas: He, ct pressure 4.8 psi (33.1 kPa), 35 cm/s (40°C)
Oven: 40 °C (20 min) to 240 °C (10 min) @ 10°C/min
Detector: FID, 250 °C



Teknokroma Capillary Columns



TRB-G43

InternalLength		Film	Temp	Part.
Diam.(mm)	(m)	Thickness (µm)	limits (°C)	N°. (P/N)
0,53	30	3,00	-20 to 240/260	TR-163035

TRB-G43 Equivalent Phase

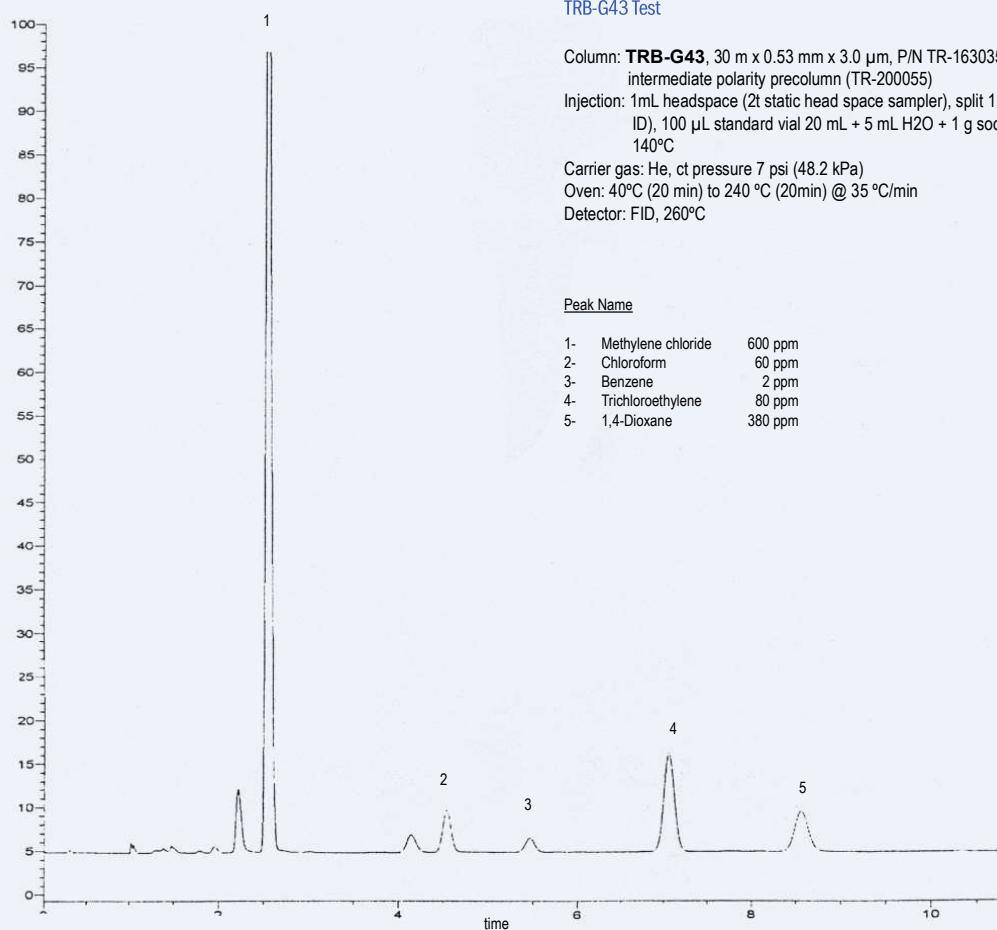
Agilent: HP-1301, HP-624, DB-1301, DB-624

Supelco: SPB-1301, OVI-G43

Restek: Rtx-1301, Rtx-624

SGE: BPX-624

USP Nomenclature: G43



TRB-G43 Test

Column: **TRB-G43**, 30 m x 0.53 mm x 3.0 µm, P/N TR-163035, 5m x 0.53mm intermediate polarity precolumn (TR-200055)

Injection: 1mL headspace (2t static head space sampler), split 1:2 (liner 1 mm ID), 100 µL standard vial 20 mL + 5 mL H₂O + 1 g sodium sulfate, 140°C

Carrier gas: He, ct pressure 7 psi (48.2 kPa)

Oven: 40°C (20 min) to 240 °C (20min) @ 35 °C/min

Detector: FID, 260°C

Peak Name

1-	Methylene chloride	600 ppm
2-	Chloroform	60 ppm
3-	Benzene	2 ppm
4-	Trichloroethylene	80 ppm
5-	1,4-Dioxane	380 ppm

TKG 1122