

Organic Volatile Impurities (OVI) Analysis

Rtx®-5 Columns (fused silica)

(low polarity phase; Crossbond® 5% diphenyl/95% dimethyl polysiloxane)

- General purpose columns for drugs, solvent impurities, pesticides, hydrocarbons, PCB congeners (e.g. Aroclor mixes), essential oils, semivolatiles.
- Temperature range: -60 °C to 350 °C.
- Equivalent to USP G27 and G36 phases.

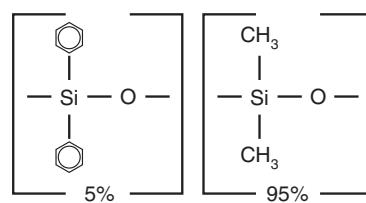
The 5% diphenyl/95% dimethyl polysiloxane stationary phase is the most popular GC stationary phase and is used in a wide variety of applications. All residual catalysts and low molecular weight fragments are removed from the Rtx®-5 polymer, providing a tight mono-modal distribution and extremely low bleed.

ID	df	temp. limits	30-Meter
0.53mm	5.00 μ m	-60 to 270/290°C	10279

For our complete listing of Rtx®-5 columns, see **page 50**.

G27 phase

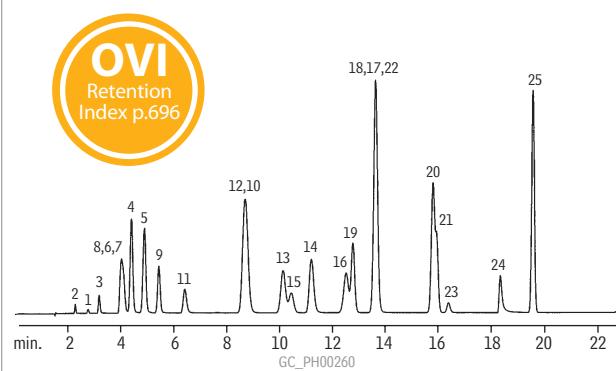
Rtx®-5 Structure



similar phases

DB-5, HP-5, HP-5MS, Ultra-2, SPB-5, Equity-5, MDN-5

Organic volatile impurities on an Rtx®-5 (Rtx®-G27) column.



Rtx®-5 (Rtx®-G27) with 5m phenylmethyl Integra-Guard® guard column,
30m, 0.53mm ID, 5.0 μ m (cat.# 10279-126)

Inj.: Headspace injection of common solvents for pharmaceutical processing. Prepared to equal about 500ppm in the bulk pharmaceutical. Samples shaken and heated at 90°C for 15 minutes, 1mL headspace injection.
 Oven temp.: 35°C (hold 10 min.) to 100°C @ 5°C/min., to 240°C @ 25°C/min. (hold 5 min.)
 Inj./det. temp.: 220°C/240°C
 FID sensitivity: 1.05 x 10⁻¹¹ AFS
 Carrier gas: helium, 35cm/sec. set @ 35°C
 Split ratio: 2:1

- ethylene oxide
- methanol
- ethanol
- diethyl ether
- 1,1-dichloroethene
- acetone
- isopropanol
- acetonitrile
- methylene chloride
- n-hexane
- n-propanol
- methyl ethyl ketone
- ethyl acetate
- tetrahydrofuran
- chloroform
- 1,1,1-trichloroethane
- carbon tetrachloride
- benzene
- 1,2-dichloroethane
- heptane
- trichloroethylene
- n-butanol
- 1,4-dioxane
- pyridine
- toluene

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85