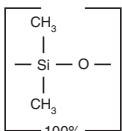


Structures, polarities, properties, and uses for Restek capillary column phases, in order of increasing polarity



Rxi®-1ms, Rxi®-1HT, Rtx®-1

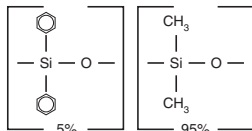
100% dimethyl polysiloxane



Polarity: nonpolar
Uses: solvents, petroleum products, pharmaceutical samples, waxes
[G1]

Rxi®-5ms, Rxi®-5HT, Rtx®-5, Rtx®-5MS

5% diphenyl/95% dimethyl polysiloxane

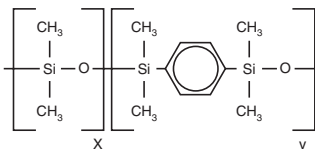


Polarity: slightly polar
Uses: flavors, environmental, aromatic hydrocarbons
[G27]

Rxi®-5Sil MS

5% phenyl

95% dimethyl arylene polysiloxane

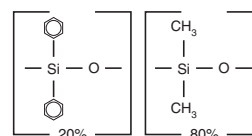


Polarity: slightly polar
Uses: flavors, environmental, pesticides, PCBs, aromatic hydrocarbons

Rtx®-20

20% diphenyl

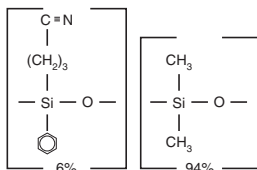
80% dimethyl polysiloxane



Polarity: slightly polar
Uses: volatile compounds, alcohols
[G32]

Rtx®-1301, Rtx®-624, Rtx®-G43

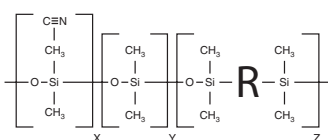
6% cyanopropylphenyl
94% dimethyl polysiloxane



Polarity: slightly polar
Uses: volatile compounds, insecticides, residue solvents in pharmaceutical products
[G43]

Rxi®-624Sil MS

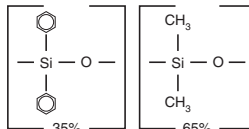
6% cyanopropylphenyl
94% dimethyl arylene polysiloxane



Polarity: intermediately polar
Uses: volatile compounds, insecticides, residue solvents in pharmaceutical products

Rtx®-35

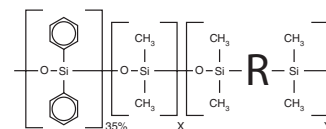
35% diphenyl
65% dimethyl arylene polysiloxane



Polarity: intermediately polar
Uses: pesticides, Aroclor PCBs, amines, nitrogen-containing herbicides
[G42]

Rxi®-35Sil MS

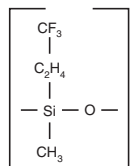
35% phenyl
65% dimethyl arylene polysiloxane



Polarity: intermediately polar
Uses: pesticides, Aroclor PCBs, amines, nitrogen-containing herbicides

Rtx®-200

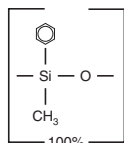
trifluoropropylmethyl polysiloxane



Polarity: selective for lone pair electrons
Uses: environmental, solvents, Freon® gases, drugs, ketones, alcohols
[G6]

Rtx®-50

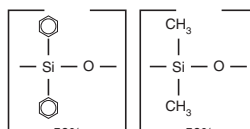
50% phenyl
50% methyl polysiloxane



Polarity: intermediately polar
Uses: FAMES, carbohydrates
[G3]

Rxi®-17

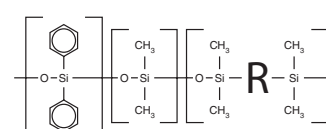
50% diphenyl
50% dimethyl polysiloxane



Polarity: intermediately polar
Uses: triglycerides, phthalate esters, steroids, phenols
[G3]

Rxi®-17Sil MS

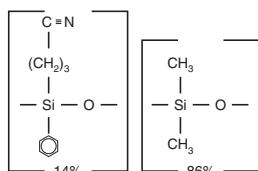
50% phenyl
50% dimethyl arylene polysiloxane



Polarity: intermediately polar
Uses: triglycerides, phthalate esters, steroids, phenols

Rtx®-1701

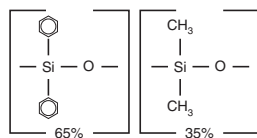
14% cyanopropylphenyl
86% dimethyl polysiloxane



Polarity: intermediately polar
Uses: pesticides, Aroclor PCBs, alcohols, oxygenates
[G46]

Rtx®-65, Rtx®-65TG

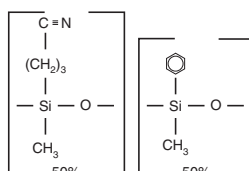
65% diphenyl
35% dimethyl polysiloxane



Polarity: intermediately polar
Uses: triglycerides, rosin acids, free fatty acids

Rtx®-225

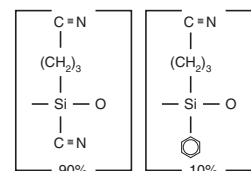
50% cyanopropylmethyl
50% phenylmethyl polysiloxane



Polarity: polar
Uses: FAMES, carbohydrates
[G7]

Rt®-2330

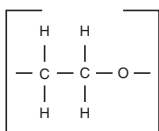
90% biscyanopropyl
10% cyanopropylphenyl polysiloxane



Polarity: polar
Uses: cis/trans FAMES, dioxin isomers, rosin acids
[G48]

Stabilwax®, Rtx®-Wax

Carbowax® PEG



Polarity: polar
Uses: FAMES, flavors, acids, amines, solvents, xylene isomers
[G16]

note

Structures, polarities, and properties also apply to metal MXT® stationary phases.