Kromasil Diol is developed in order to provide excellent performance in HPLC as well as in SFC. By utilizing a high concentration of the dihydroxypropyl functional group, Kromasil Diol shows unique characteristics and provides an alternative selectivity to Kromasil Silica, Cyano, and Amino phases.

Kromasil® Diol – the alternative

Many Diol phases on the market show only minor difference in selectivity compared to equivalent bare silica. Due to very high concentration of the dihydroxypropyl functional group our Kromasil Diol exhibits substantial difference in selectivity compared to Kromasil Silica, Kromasil Cyano, and Kromasil Amino. Therefore we propose Kromasil Diol as the perfect complementary phase when searching for highest selectivity!
We have injected a mix of phenols on a Kromasil Diol 5 µm analytical column, and compared the result with two commercially available Diol 5 µm analytical columns. In this comparison study we have only included phases showing a pronounced Diol character, and not Diol phases having a character more similar to bare silica.

**Conditions:**
- Column: 4.6 × 250 mm
- Mobile phase: heptane/IPA (75/25)
- Flow rate: 2 ml/min.
- Temperature: 20°C
- Detection: 254 nm
- Injection sample: 2-nitrophenol, phenol, 4-nitrophenol, 2-aminophenol, 3-aminophenol

Kromasil Diol also provides an excellent selectivity under certain RP conditions. In this particular case, Kromasil Diol nicely separates a mix of polar compounds.

Kromasil Diol is wettable, which means that it is working excellent using 100% aqueous conditions.

**Conditions:**
- Column: 4.6 × 250 mm
- Mobile phase: ACN/25 mM potassium phosphate pH 7.85 (80/20)
- Flow rate: 1 ml/min.
- Temperature: 20°C
- Detection: 270 nm
- Injection sample (elution order): caffeine, theobromine, thymine, uracil, adenine, guanine

All Kromasil phases are available as bulk and pre-packed columns, from 2.1 mm up to 50 mm ID. For placing orders or for further inquiries, please use contact details below!

**How to order Kromasil products**

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