

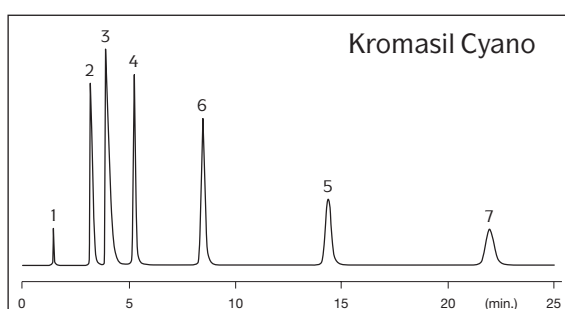
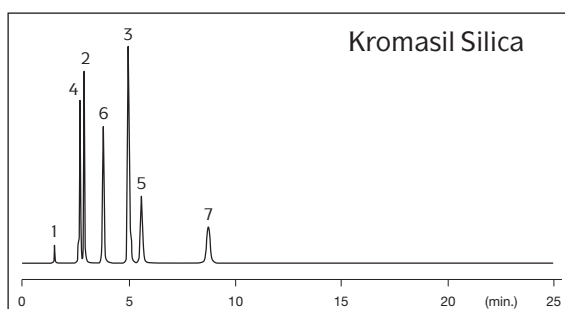
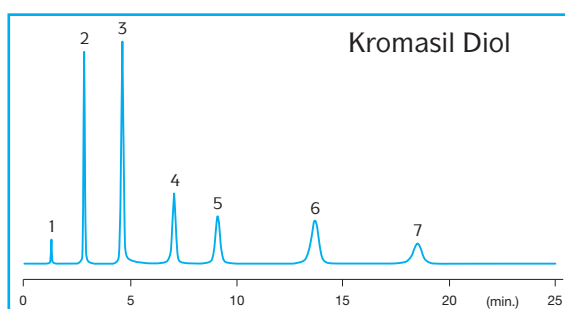
# Kromasil® Diol

## The perfect complementary phase for your NP and RP separations

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!

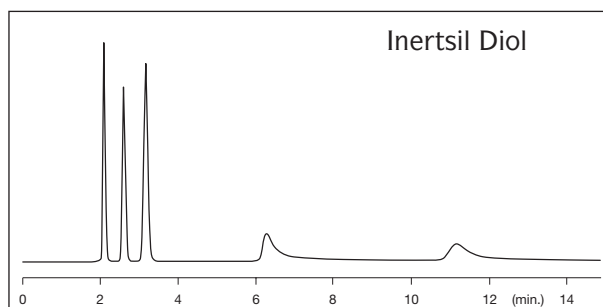
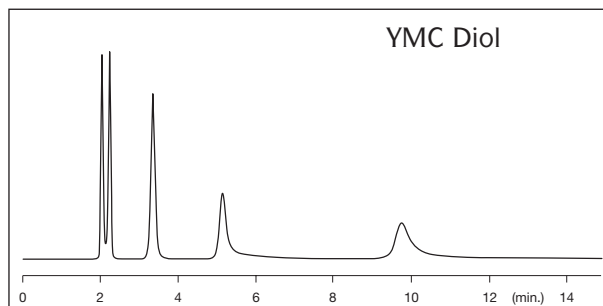
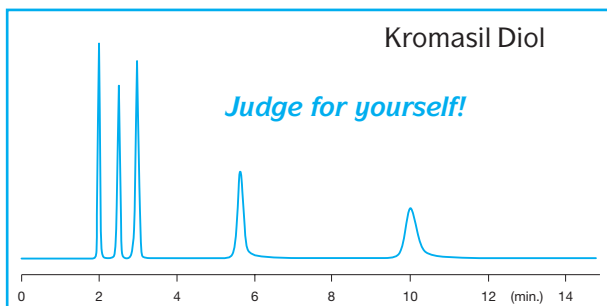


Conditions: Column: 4.6 × 250 mm Mobile phase: heptane/IPA (85/15)  
Flow rate: 2 ml/min. Temperature: 20 °C Detection: 224 nm  
Injection sample: peak 1: tri-tert-butylbenzene, peak 2: 2-ethoxyaniline,  
peak 3: aniline, peak 4: catechol, peak 5: 2,4-dinitroaniline,  
peak 6: hydroquinone, peak 7: 4-nitroaniline

Kromasil Diol is based on the unique high performing and high purity Kromasil 60 Å Silica. It is available in 5 µm and 10 µm particle sizes, as bulk and slurry-packed columns from 2.1 mm ID up to 50 mm ID, all with analytical efficiency. Other particle sizes and pore sizes are available upon request!



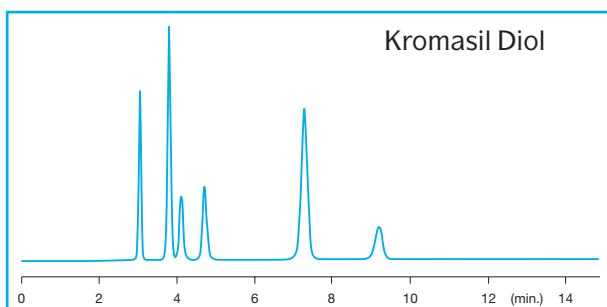
## ■ Kromasil Diol – a comparison study



We have injected a mix of phenols on a Kromasil Diol 5  $\mu\text{m}$  analytical column, and compared the result with two commercially available Diol 5  $\mu\text{m}$  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  $\times$  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 under RP conditions



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.

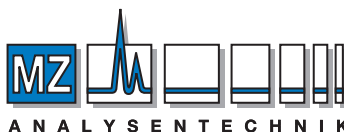
*Conditions: Column: 4.6  $\times$  250 mm Mobile phase: ACN/ 25 mM potassium phosphate pH 7.85 (80/20) Flow rate: 1 ml/min. Temperature: 20°C  
Detection: 270 nm Injection sample (elution order): caffeine, theobromine, thymine, uracil, adenine, guanine*

## How to order Kromasil products



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!



MZ-Analysentechnik GmbH  
Wöhlerstraße 2-6 • D-55120 Mainz  
Tel +49 6131 68 66 19  
Fax +49 6131 68 66 20  
e-mail: [info@mz-at.de](mailto:info@mz-at.de)  
[www.mz-at.de](http://www.mz-at.de)

Eka Chemicals AB, Separation Products, SE-445 80 Bohus, Sweden.  
Tel. +46 31 58 70 00 Fax +46 31 58 77 27

For NAFTA countries: Eka Chemicals, 7 Livingstone Avenue, Dobbs Ferry, NY 10522-3401, U S A.  
Tel. +1 914 674 5019 Fax +1 914 693 3654

[kromasil@eka.com](mailto:kromasil@eka.com)

[www.kromasil.com](http://www.kromasil.com)

**Kromasil®**