



# Chiral GC Columns

## *for the separation of enantiomers*

*Cyclodextrin Derivatives suspended in Polysiloxanes*

### Separation of Enantiomers

Capillary columns with cyclodextrin derivatives can be used for the separation of a broad range of enantiomers. For most of the compounds no specific derivatisation is needed, in some cases a simple acetylation or methylation of polar groups is necessary. To achieve a maximum of separation efficiency and resolution the cyclodextrin derivatives are suspended in midpolar polysiloxanes. These columns are very durable and stable.

The mechanism of chiral recognition is not known in detail. So it's difficult to predict the cyclodextrin that shows the best resolution. This is the reason why we do offer seven different cyclodextrin phases and an application service to find the most convenient column for you.

### Cyclodextrin-Phases

<b>BGB-172</b>	<i>20% tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in BGB-15 (15% phenyl-, 85% methylpolysiloxane)
<b>BGB-173</b>	<i>50% 2,3-diacetyl-6-tert-butyldimethylsilyl-alpha-cyclodextrin</i> dissolved in BGB-1701 (14% cyanopropylphenyl-, 86% methylpolysiloxane)
<b>BGB-174</b>	<i>30% 2,3-diacetyl-6-tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in BGB-1701 (14% cyanopropylphenyl-, 86% methylpolysiloxane)
<b>BGB-175</b>	<i>50% 2,3-diacetyl-6-tert-butyldimethylsilyl-gamma-cyclodextrin</i> dissolved in BGB-1701 (14% cyanopropylphenyl-, 86% methylpolysiloxane)
<b>BGB-176</b>	<i>30% 2,3-dimethyl-6-tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in BGB-15 (15% phenyl-, 85% methylpolysiloxane)
<b>BGB-176SE</b>	<i>30% 2,3-dimethyl-6-tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in SE-52 (5% phenyl-, 95% methylpolysiloxane)
<b>BGB-177</b>	<i>20% 2,6-dimethyl-3-pentyl-beta-cyclodextrin</i> dissolved in BGB 15 (15% phenyl-, 85% methyl polysiloxane)
<b>BGB-178</b>	<i>30% 2,3-diethyl-6-tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in BGB-15 (15% phenyl-, 85% methylpolysiloxane)
<b>BGB-178PH</b>	<i>30% 2,3-diethyl-6-tert-butyldimethylsilyl-beta-cyclodextrin</i> dissolved in BGB-15 (15% phenyl-, 85% methylpolysiloxane)

