

Fused Silica Capillary Columns → MEGA-DEX DAC-Beta

## MEGA-DEX DAC-Beta



View Full-Size

Image

### Stationary Phase Characteristics

Composition	<b>Diacetyl tertbutylsilyl-BETA-Cyclodextrine</b>
Polarity	<b>Chiral Stationary Phase</b>

### Application Notes

*Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,*

### Support

### Chiral Compunds Table (MEGA-DEX)

Description	Internal Diameter	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DAC-Beta	0.25 mm	0.25 µm	15 m	230 °C	DEX-DAC-B-025-025-15	
MEGA-DEX DAC-Beta	0.25 mm	0.15 µm	25 m	230 °C	DEX-DAC-B-025-015-25	
MEGA-DEX DAC-Beta	0.25 mm	0.25 µm	25 m	230 °C	DEX-DAC-B-025-025-25	
MEGA-DEX DAC-Beta	0.25 mm	0.15 µm	15 m	230 °C	DEX-DAC-B-025-015-15	

**You may also be interested in this/these product(s):**

MEGA-DEX DAC-Gamma



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MEGA-DEX DET-Beta



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MEGA-DEX DET-Gamma



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MEGA-DEX DMP-Beta



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Vendor Information

more categories

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STANDARD

**GC-MS**  
columns

GC-MS COLUMNS

**CUSTOM  
DEDICATED  
COLUMNS**

CUSTOM-DEDICATED

**MEGA GAP**  
incorporated Retention Gap  
columns

MEGA-GAP (Incorporated Ret.-Gap)

**dex xsb**  
chiral columns

MEGA-DEX (CHIRAL PHASES)

**Mega HT**  
HIGH Temperature Columns

HIGH TEMPERATURE COLUMNS

**FAST-GC**  
columns

FAST-GC

**mega<sup>2D</sup>**  
columns

Fused Silica Capillary Columns → MEGA-DEX DAC-Gamma



View Full-Size  
Image

## MEGA-DEX DAC-Gamma

### Stationary Phase Characteristics

Composition	Diacetyl tertbutylsilyl-GAMMA-Cyclodextrine
Polarity	Chiral Stationary Phase

### Application Notes

*Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,*

### Support

### Chiral Compunds Table (MEGA-DEX)

Description	Internal Diameter	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DAC-Gamma	0.25 mm	0.15 µm	15 m	230 °C	DEX-DAC-G-025-015-15	
MEGA-DEX DAC-Gamma	0.25 mm	0.15 µm	25 m	230 °C	DEX-DAC-G-025-015-25	
MEGA-DEX DAC-Gamma	0.25 mm	0.25 µm	15 m	230 °C	DEX-DAC-G-025-025-15	
MEGA-DEX DAC-Gamma	0.25 mm	0.25 µm	25 m	230 °C	DEX-DAC-G-025-025-25	

Fused Silica Capillary Columns → MEGA-DEX DET-Beta



View Full-Size

Image

## MEGA-DEX DET-Beta

### Stationary Phase Characteristics

Composition	Diethyl tertbutylsilyl-BETA-Cyclodextrine
Polarity	Chiral Stationary Phase

### Application Notes

Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,

### Support

### Chiral Compunds Table (MEGA-DEX)

Description	Internal Diameter	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DET-Beta	0.25 mm	0.15 µm	15 m	230 °C	DEX-DET-B-025-015-15	
MEGA-DEX DET-Beta	0.25 mm	0.15 µm	25 m	230 °C	DEX-DET-B-025-015-25	
MEGA-DEX DET-Beta	0.25 mm	0.25 µm	15 m	230 °C	DEX-DET-B-025-025-15	
MEGA-DEX DET-Beta	0.25 mm	0.25 µm	25 m	230 °C	DEX-DET-B-025-025-25	

Fused Silica Capillary Columns → MEGA-DEX DET-Gamma



View Full-Size

Image

## MEGA-DEX DET-Gamma

### Stationary Phase Characteristics

Composition	Diethyl tertbutylsilyl-GAMMA-Cyclodextrine
Polarity	Chiral Stationary Phase

### Application Notes

*Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,*

### Support

### Chiral Compunds Table (MEGA-DEX)

Description	Internal Diameter	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DET-Gamma	0.25 mm	0.15 µm	15 m	230 °C	DEX-DET-G-025-015-15	
MEGA-DEX DET-Gamma	0.25 mm	0.15 µm	25 m	230 °C	DEX-DET-G-025-015-25	
MEGA-DEX DET-Gamma	0.25 mm	0.25 µm	15 m	230 °C	DEX-DET-G-025-025-15	
MEGA-DEX DET-Gamma	0.25 mm	0.25 µm	25 m	230 °C	DEX-DET-G-025-025-25	

Fused Silica Capillary Columns → MEGA-DEX DMP-Beta

## MEGA-DEX DMP-Beta



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 Image

### Stationary Phase Characteristics

Composition	<b>Dimethyl pentyl-BETA-Cyclodextrine</b>
Polarity	<b>Chiral Stationary Phase</b>

### Application Notes

*Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,*

### Support

*Chiral Compunds Table (MEGA-DEX)*

Description	Internal Diameter	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DMP-Beta	0.25 mm	0.15 µm	15 m	230 °C	DEX-DMP-B-025-015-15	
MEGA-DEX DMP-Beta	0.25 mm	0.15 µm	25 m	230 °C	DEX-DMP-B-025-015-25	
MEGA-DEX DMP-Beta	0.25 mm	0.25 µm	15 m	230 °C	DEX-DMP-B-025-025-15	
MEGA-DEX DMP-Beta	0.25 mm	0.25 µm	25 m	230 °C	DEX-DMP-B-025-025-25	

Fused Silica Capillary Columns → MEGA-DEX DMT-Beta



View Full-Size  
 Image

## MEGA-DEX DMT-Beta

### Stationary Phase Characteristics

Composition	Dimethyl tertbutylsilyl-BETA-Cyclodextrine
Polarity	Chiral Stationary Phase


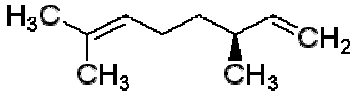
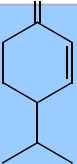
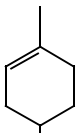
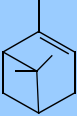
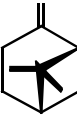
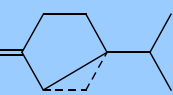
### Application Notes

Camphor , Cineol , Delta Lactones , Isoborneol , Menthone-Isomenthone , Neomenthol-Isomenthol ,

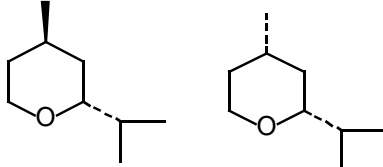
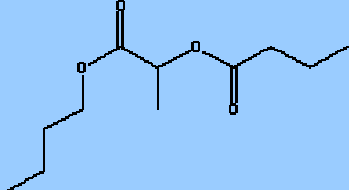
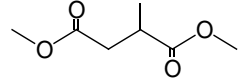
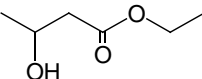
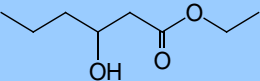
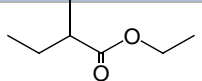
### Support

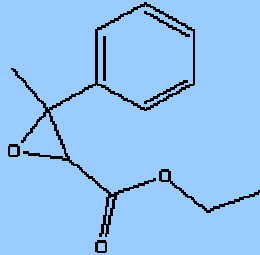
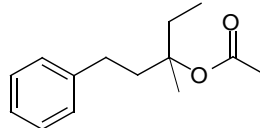
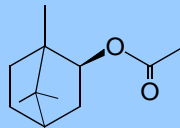
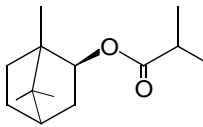
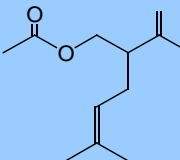
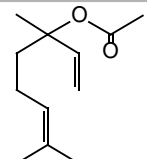
### Chiral Compounds Table (MEGA-DEX)

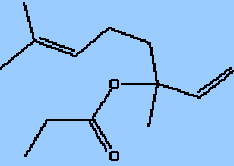
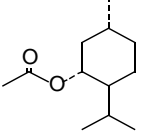
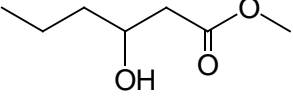
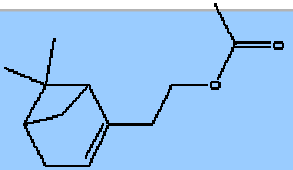
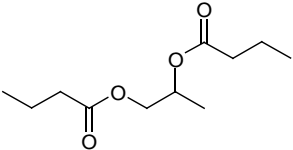
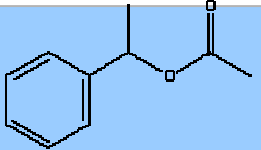
Description	I.D.	Film Thickness	Length	Max Temperature	Code #	Q.ta
MEGA-DEX DMT-Beta	0.25 mm	0.15 µm	15 m	230 °C	DEX-DMT-B-025-015-15	
MEGA-DEX DMT-Beta	0.25 mm	0.15 µm	25 m	230 °C	DEX-DMT-B-025-015-25	
MEGA-DEX DMT-Beta	0.25 mm	0.25 µm	15 m	230 °C	DEX-DMT-B-025-025-15	
MEGA-DEX DMT-Beta	0.25 mm	0.25 µm	25 m	230 °C	DEX-DMT-B-025-025-25	

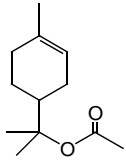
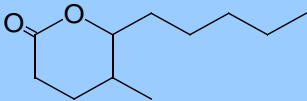
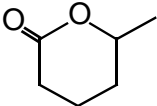
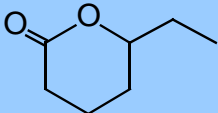
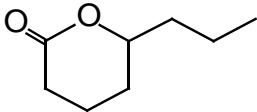
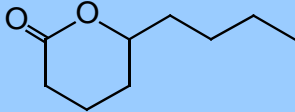
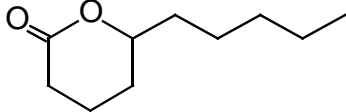
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT β	MEGA-DEX DET β	MEGA-DEX DAC β	MEGA-DEX DMP β	
Camphene		2,2	6,8	/	4,5	
β-Citronellene		/	1,2	/	1,8	
β-Phellandrene		3,8	6,1	0,9	3	
Limonene		5	7,4	/	3,7	
α-Pinene		2,9	/	1,2	3,5	
β-Pinene		3,4	3,6	1,1	1,4	
Sabinene		6,5	6,2	/	7,2	

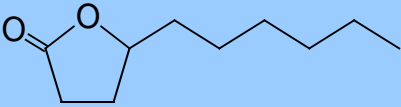
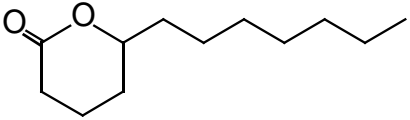
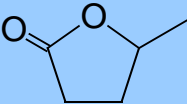
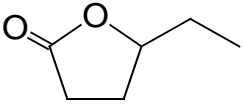
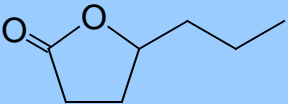
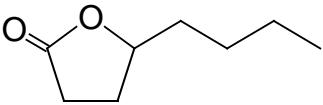
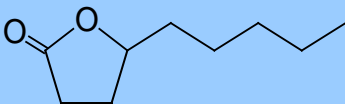
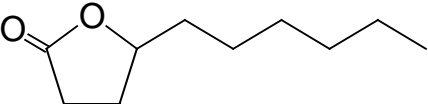


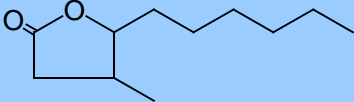
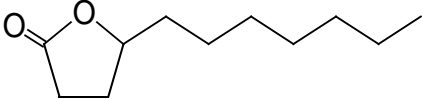
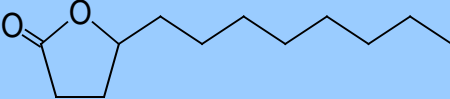
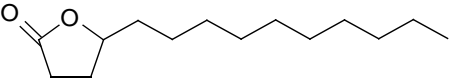
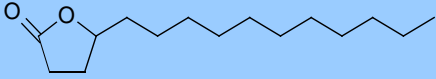
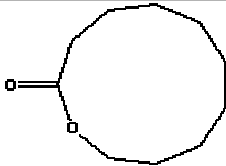
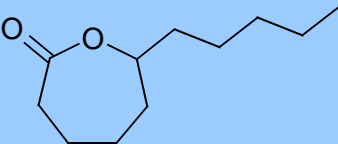
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
<b>Heterocycles</b>						
Rose oxide		4,2	2	1,6	2,1	(2R,4S) cis / (2S,4R) cis
		/	1,9	/	/	(2R,4R) trans / (2S,4S) trans
<b>Esters</b>						
Butyl butyryl lactate		1,6	1,7	2,2	1,4	
Dimethyl methylsuccinate		2,2	1,1	4	2	
Ethyl 2-phenylbutyrate	/	1	2,7	1	1,1	
Ethyl 3-hydroxybutyrate		3,2	/	6,1	1,8	
Ethyl 3-hydroxyhexanoate		3	1,5	/	3,7	
Ethyl 2-methylbutyrate		2,9	5,1	2,7	2,2	

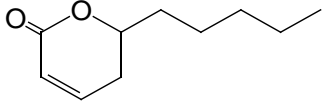
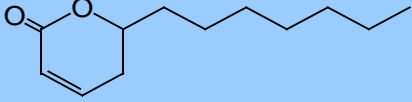
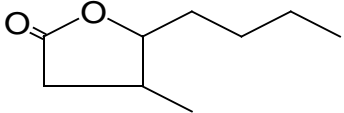
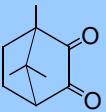
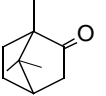
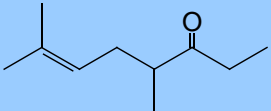
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
Ethyl 3-methyl-3-phenylglycidate		/	2,5	1	/	X / Y
		2	4,7	/	4,7	Z / W
Phenylethyl methyl ethyl carbinol acetate		/	/	/	1,1	
Isobornyl acetate		/	1,4	/	1,7	
Isobornyl isobutyrate		1	1,4	/	1,9	
Lavandulyl acetate		1,6	2,3	/	1,4	
Linalyl acetate		0,7	3,7	1,1	/	

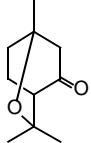
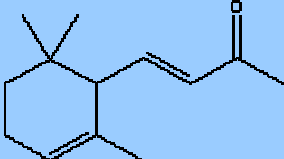
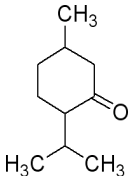
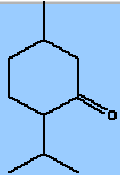
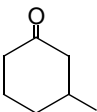
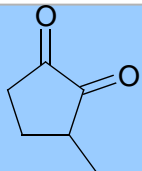
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
Linalyl propionate		/	1,2	/	0,4	
Menthyl acetate		14	17	5,2	19,8	
cis 2-Methyl-3.-hexenyl butyrate	/	1,8	2,3	1	1	
Methyl 3-hydroxyhexanoate		5,7	6,8	3	7,8	
Nopyl acetate		/	/	/	1,7	
Propyleneglycol butyrate		2,3	1,4	1,2	5,3	
Styrallyl acetate		15,6	56,3	3	38,3	

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
$\alpha$ -Terpinyl acetate		/	/	/	1,1	
<b>Lactones</b>						
Aerangis lactone		2,2	2,8	1	1,7	
$\delta$ -Hexalactone		/	1,5	6,6	/	
$\delta$ -Heptalactone		3,2	1,4	0,9	0,6	
$\delta$ -Octalactone		1,8	3,4	7,5	0,9	
$\delta$ -Nonalactone		1,5	1	4,4	/	
$\delta$ -Decalactone		1	1	4,1	/	

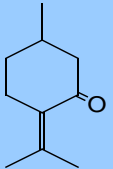
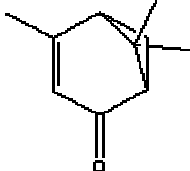
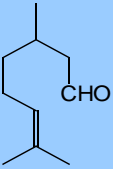
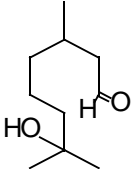
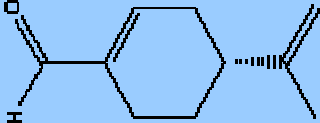
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
$\delta$ -Undecalactone		1,4	1,2	3,8	/	
$\delta$ -Dodecalactone		1,1	1,1	3,5	/	
$\gamma$ -Pentalactone		7,6	20,5	21,4	5,5	
$\gamma$ -Hexalactone		6	13,6	15,7	3,4	
$\gamma$ -Heptalactone		8,9	13,9	4,2	4,7	
$\gamma$ -Octalactone		6,4	11,6	4,6	3,7	
$\gamma$ -Nonalactone		5,7	9,8	3,9	3	
$\gamma$ -Decalactone		4	7,2	3,7	2,2	

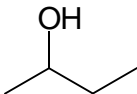
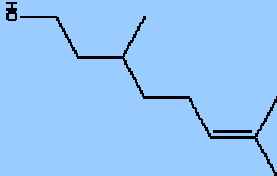
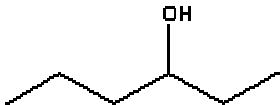
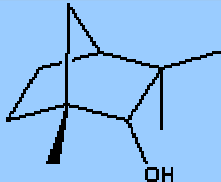
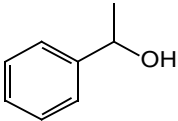
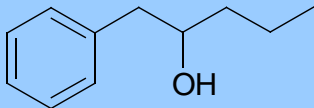
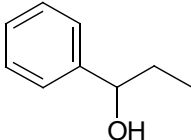
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
3-Methyl- $\gamma$ -decalactone		6,4	8	4,5	5,1	
$\gamma$ -Undecalactone		3,4	6,1	3,6	1,7	
$\gamma$ -Dodecalactone		2,9	4,8	3,1	1,4	
$\gamma$ -Tetradecalactone		2	3,2	2,4	1	
$\gamma$ -Pentadecalactone		1,6	2,4	2,1	0,7	
$\epsilon$ -Decalactone		5	8	2,6	1,8	
$\epsilon$ -Dodecalactone		4,3	5,4	4	1,2	

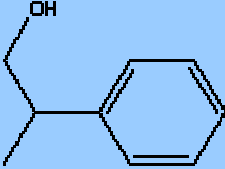
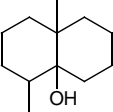
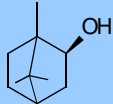
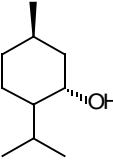
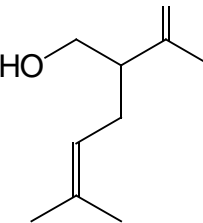
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
Massoja decalactone		1,2	/	5,7	0,7	
Massoja dodecalactone		1,2	/	5,2	/	
Whiskey lactone		11,2	11,2	5,1	5,2	X/Y
		2,8	1,4	6,3	/	Z/W
<b><i>Ketones</i></b>						
Camphorquinone		2,2	3,8	6,5	/	
Camphor		2,6	3,7	7,8	/	
3,6-dimethylocta-2-en-6-one		1,7	5	2,4	3,2	

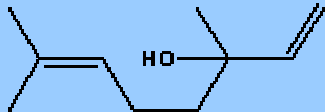
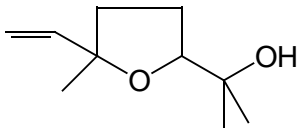
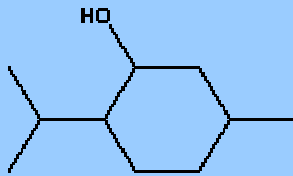
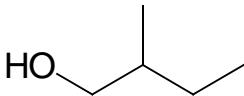
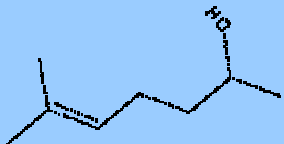
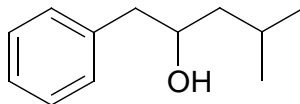
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
1,8-Epoxy-p-menthan-3-one		12,5	13,8	4,8	11,6	
$\alpha$ -Ionone		5,1	4,9	5,4	7,6	
Isomenthone		10,4	/	2,4	/	
Menthone		1,5	2,2	2,8	/	
3-Methylcyclohexanone		1,7	5,3	1	1,3	
3-Oxocineole		17	693.36.00	20,7	11	

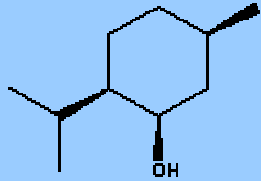
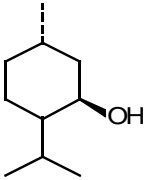
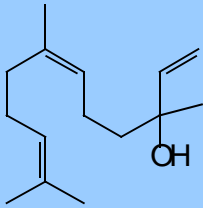
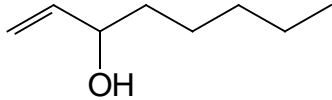
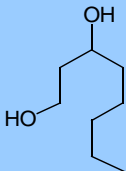
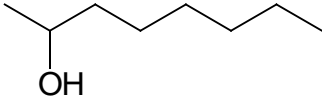


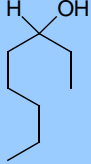
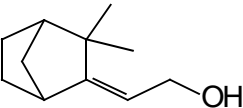
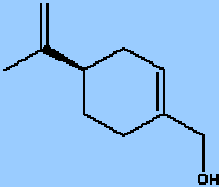
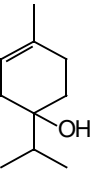
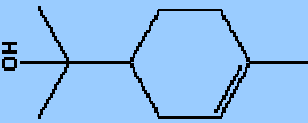
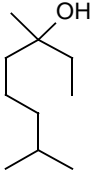
COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
Piperitone	/	6	8,8	2,8	5	
Pulegone		4,6	3,8	/	2,7	
Verbenone		2,9	3,5	1,8	1,1	
<b>Aldehydes</b>						
Citronellal		/	1,1	3,1	1,3	
Hydroxycitronellal		1	1,1	2,9	/	
Perillyl aldehyde		6,4	8,2	1,9	4,1	

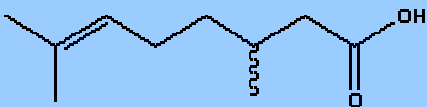
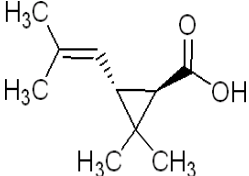
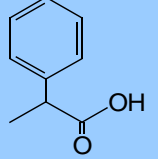
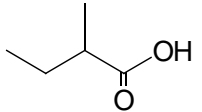
COMPOUND	FORMULA	R (ERSOLUTION)				CONFIG
		MEGA-DEX DMT β	MEGA-DEX DET β	MEGA-DEX DAC β	MEGA-DEX DMP β	
<b>Alcohols</b>						
2-Butanol		/	/	2,2	/	
Citronellol		1,2	1,3	1,8	/	
3-Hexanol		/	/	1,7	0,9	
Fenchyl alcohol		2,7	8,6	7	4,2	
1-Phenylethanol		6	6,1	8	9	
1-Phenyl-2 pentanol		4,1	1,1	3	3,3	
1-Phenil 1-propanol		2	3,9	4,8	5,3	

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
2-Phenil-1-propanol		3,2	3,1	7,6	2	
Geosmin		1,7	1,3	1	3,4	
Isoborneol		3,6	3,7	9,7	2,1	
Isomenthol		4,4	8,6	8,8	6,3	
Isopinocampheol	/	5,6	1,8	2	/	
Lavandulol		8,6	13,7	/	4,5	S
						R

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT β	MEGA-DEX DET β	MEGA-DEX DAC β	MEGA-DEX DMP β	
Linalool		3,9	7,4	1,4	5,3	
Linalool oxide		9,6	/	/	13,9	(+) trans / (-) trans
		4,8	/	/	9,6	(+) cis / (-) cis
Menthol		1,3	1,3	5	1,3	
2-Methylbutanol		1,2	2,4	2,8	1,2	
6-Methyl-5hepten-2-ol		6,3	6,7	1,5	8,2	
4-Methyl-1-phenylpentanol		3,5	2,3	7	2,9	

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT β	MEGA-DEX DET β	MEGA-DEX DAC β	MEGA-DEX DMP β	
Neoisomenthol		11	17,4	4	10,1	
Neomenthol		6,9	6,4	4,6	3,1	
Nerolidol		2,2	4,3	/	2,2	X cis / Y cis
		2,7	4,5	/	3,2	Z trans / W trans
1-Octen-3-ol		1,4	/	1,4	/	
1,3-Octanediol		1	1,2	2,7	1,6	
2-Octanol		1	1	/	/	

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
3-Octanol		/	1	1,5	0,4	
Patchenol		/	/	/	3,9	
Perillyl alcohol		/	/	/	3,5	
Terpinen-4-ol		2,4	1,7	22,8	4	
$\alpha$ -Terpineol		5,1	6,9	2,7	1,9	
Tetrahydrolinalool		4,2	7	/	6,6	

COMPOUND	FORMULA	R (RESOLUTION)				CONFIG
		MEGA-DEX DMT $\beta$	MEGA-DEX DET $\beta$	MEGA-DEX DAC $\beta$	MEGA-DEX DMP $\beta$	
<b>Acids</b>						
Citronellic acid		1,7	1,1	/	/	
Chrysanthemic acid		8,4	7,5	/	11,2	
2-Phenylpropionic acid		/	2	3,4	3,6	
2-Methylbutyric acid		2,1	1,5	1	4,5	

**Legend:**

<b>MEGA-DEX DMT <math>\beta</math></b> = Dimethyl tertbutyldimethylisilyl- $\beta$ -cyclodextrine	0,25 mm i.d.	0,15 $\mu$ m f.t.	25 m
<b>MEGA-DEX DET <math>\beta</math></b> = Diethyl tertbutyldimethylisilyl- $\beta$ -cyclodextrine	0,25 mm i.d.	0,15 $\mu$ m f.t.	25 m
<b>MEGA-DEX DAC <math>\beta</math></b> = Diacetyl tertbutyldimethylisilyl- $\beta$ -cyclodextrine	0,25 mm i.d.	0,25 $\mu$ m f.t.	25 m
<b>MEGA-DEX DMP <math>\beta</math></b> = Dimethyl pentyl- $\beta$ -cyclodextrine	0,25 mm i.d.	0,25 $\mu$ m f.t.	25 m

Courtesy of Laboratory of Phytoanalysis, Dipartimento di Scienza e Tecnologia del farmaco, University of Torino (ITALY). Analyses were carried out on a Shimadzu QP 2010 S GC-MS system.