Kromasil® Chiral DMB & TBB

High performance spherical silica for analytical to process scale liquid chromatography. The chiral monomers are polymerized with a multifunctional hydrosilane, yielding a network polymer. This incorporates the bifunctional C2-symmetric chiral selector and is covalently bonded onto the silica.

**PRODUCT CHARACTERISTICS**

**Chiral monomers:**
DMB — O,O’-bis (3,5-dimethylbenzoyl)-N, N’-diallyl-L-tartar diamide
TBB — O,O’-bis (4-tert-butylbenzoyl)-N, N’-diallyl-L-tartar diamide

**Particle sizes:**
5 µm, 10 µm, 16 µm

**Particle size distribution:**
(Coulter Multisizer)
dp90/dp10: < 1.50 (5 µm)
< 1.70 (10, 16 µm)

**Spec surface area:**
330 m²/g (multi-point BET)

**Pore volume:**
0.9 ml/g (N₂-adsorption)

**Pore size:**
110 Å (N₂-adsorption)

**Pore size distribution:**
80% ± 25 Å (N₂-adsorption)
97% of the BET-surface is accessible for toluene.

**Carbon content:**
DMB: 15.0%
TBB: 15.5%

**Nitrogen content:**
0.6%

**Ligand coverage:**
0.2 mmol/g (as tartaric acid derivative)

**Packed density:**
0.66 g/ml

**Chemical purity:**
Typical figures (AAS or ICP):
Na: < 20 ppm
Al: < 10 ppm
Fe: < 10 ppm

**Chemical stability:**
Allows the use of most solvents and buffers. TFA buffers can under certain conditions cause some hydrolysis of the phases.

**Mechanical stability:**
Allows repeated packing at up to 700 bar (10,000 psi).

**PRODUCT CODES**

For ordering please use our code system:
Kromasil 100-X-Y
— 100 indicates 100 Å pore size
— X indicates particle size: 5 up to 16 µm
— Y indicates phase: DMB or TBB
(for example Kromasil 100-5-TBB)

**DELIVERY**

Kromasil is delivered in polyethylene bottles or in polyethylene bags packed in plastic drums. Kromasil, patented by Eka Chemicals AB, is manufactured in multi-kilogram batches with high reproducibility.

The development, production and marketing of Kromasil are ISO 9001 certified.

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