

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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Eka Chemicals AB, Separation Products, SE-445 80 Bohus, Sweden.

Tel. +46 31 58 70 00

Fax +46 31 58 77 27

NAFTA countries: Akzo Nobel / Eka Chemicals Inc., 281 Fields Lane, Brewster, NY 10509, U S A.

Tel. +1 845 276 8223

Fax +1 845 277 1406

China: Akzo Nobel / Eka Chemicals, No. 12 Yumin Rd., Chaoyang District, Beijing 100029, China.

Tel. +86 10 8225 1233

Fax +86 10 8225 1911

Cell +86 133 8116 7168

kromasil@eka.com

www.kromasil.com

