

Kromasil[®] 100 Å SIL, C4, C8, C18, NH2, Phenyl

High performance spherical silica for analytical to process scale liquid chromatography. RP Kromasil 100 Å is manufactured using monofunctional silanes, and is fully end-capped.* This gives high reproducibility and chemical stability.

PRODUCT CHARACTERISTICS

Particle sizes: **

 $3.5 \mu m$, $5 \mu m$, $7 \mu m$, $10 \mu m$, $13 \mu m$, $16 \mu m$

Particle size distribution:

(Coulter Multisizer)

 dp_{90}/dp_{10} : < 1.70 (10, 13, 16 µm)

< 1.60 (7 μm) < 1.55 (5 μm) < 1.45 (3.5 μm)

Spec surface area:

320 m²/g (multi-point BET)

Pore volume:

 $0.9 \text{ ml/g} (N_2\text{-adsorption})$

Pore size:

110 Å (N_2 -adsorption)

Pore size distribution:

 $80\% \pm 25 \text{ Å} \text{ (N}_2\text{-adsorption)}$ 97% of the BET-surface is accessible for toluene

Chemical purity:

Typical figures (AAS or ICP):

Na: < 10 ppm Al: < 5 ppm Fe: < 5 ppm

Coverage:

(elemental analysis)

C4: 8% C, 3.8 µmol/m²
C8: 12% C, 3.7 µmol/m²
C18: 20% C, 3.5 µmol/m²
NH2: 1.7% N, 4.5 µmol/m²
Phenyl: 14% C, 3.7 µmol/m²

Chemical stability: ***

Kromasil derivatized phases are stable between pH 1.5 and 10 and as high as 12 under certain conditions.

Mechanical stability:

Allows repeated packing at up to 700 bar (10,000 psi)

Packed density:

SIL: 0.50 g/ml C4: 0.57 g/ml C8: 0.60 g/ml C18: 0.66 g/ml NH2: 0.53 g/ml Phenyl: 0.59 g/ml

PRODUCT CODES

For ordering please use our code system: Kromasil 100-X-Y

- 100 indicates 100 Å pore size
- X indicates particle size: 3.5 up to 16 μm
- Y indicates phase: SIL, C4, C8, C18, NH2 or Phenyl

(for example Kromasil 100-5-C18)

DELIVERY

Kromasil is delivered in polyethylene bottles or in polyethylene bags packed in fibre 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.

- *) Kromasil NH2 is derivatized using a trifunctional silane, and is not end-capped.
- **) Kromasil Phenyl is available in 5 μ m, 10 μ m and 16 μ m particle size.
- ***) Applies to derivatized phases except NH2.

© Eka Chemicals AB 2007

This publication may not be reproduced in any way without the consent of Eka Chemicals AB.

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 8200 Fax +1 845 277 1406

China: Akzo Nobel / Eka Chemicals

Rm.1910 East Ocean Center, No.24A Jian Guo Men Wai Ave., Beijing 100004, China. Tel. $+86\ 10\ 6515\ 5738/39/40$, ext.115 Fax $+86\ 10\ 6515\ 5730$ Cell $+86\ 133\ 8116\ 7168$

kromasil@eka.com www.kromasil.com

AKZO NOBEL