

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ Silica

SVEA™ Silica is made of fully porous Type B Silica with no bonded phase. SVEA™ Silica is a bare silica column designed for normal phase chromatography. The mechanisms of actions are partitioning of the analytes between an almost stagnant water layer close to the silica surface and the mobile phase; polar interactions and hydrogen bonding etc.

The column is recommended for separation of non-polar and moderately polar organic compounds by normal phase chromatography, and gives excellent peak shapes for acidic, neutral and basic compounds.

TYPICAL VALUES

Property	Method of Analysis	Value	Unit
Available particle size	Coulter counter (Elzone)	5, 3.5	µm
Particle size distribution d90/d10	Coulter counter (Elzone)	See table below	N/A
Pore volume	Nitrogen adsorption (BET)	0.85	ml/g
Surface area	Nitrogen adsorption (BET)	300	m ² /g
Pore size	Nitrogen adsorption (BET)	110	Å
Carbon load	SS-EN 15407:2011	-	%
Ligand density	Calculated	-	µmol/m ²

Particle size (µm)	Particle size distribution
5	≤ 1.5
3.5	≤ 1.5

ADDITIONAL INFORMATION

Storage: Flush out all buffers from the columns and store the column in ethanol. Ensure that the end-fittings of the column are properly sealed to avoid drying of the column bed. Store at the ambient temperature.

