

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ PFP

SVEA™ PFP is made of fully porous Type B Silica with a dimethylpentafluorophenylpropylsilane bonded phase. Due to the highly electron rich nature of the aromatic rings of SVEA™ PFP, the stationary phase interacts strongly with analytes containing polar aprotic and electron deficient aromatic moieties. Additionally, the highly electronegative surface of the aromatic ring provides strong hydrogen bonding with analytes with protic moieties, such as hydroxyl groups and carboxylic acids. The delocalized charge over the fluorine-carbon bond will interact with analytes containing dipole moments. The polar nature of SVEA™ PFP ensures a fully wettable stationary phase, making it suitable for analyzing very polar 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	11	%
Ligand density	Calculated	1.9	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 an organic solvent mixture (e.g. 70/30 acetonitrile/water). Ensure that the end-fittings of the column are properly sealed to avoid drying of the column bed. Store at the ambient temperature.

