

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ Phenyl Hexyl

SVEA™ Phenyl Hexyl is made of fully porous Type B Silica with a dimethylphenylhexylsilane bonded phase. The aromatic ring and the alkyl chain will give a mixed interaction; π - π and hydrophobic interaction, respectively. Good choice as an orthogonal column compared to SVEA™ C18/C8 in method development, where the traditional alkyl-based stationary phases fail to provide adequate separation. This media can be used in highly aqueous conditions (100 % wettability), especially for 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	16	%
Ligand density	Calculated	3.8	$\mu\text{mol}/\text{m}^2$

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.

