

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ Core Phenyl-Hexyl

SVEA™ Core Phenyl-Hexyl hydrophobic phase is based on core shell technology silica gel particles and modified with phenyl-hexyl. The phenyl-hexyl phase gives an alternative selectivity in comparison to classical C18 modifications or for compounds that are difficult to resolve using traditional phenyl phases.

The separation principle is based on two retention mechanisms – π - π interactions and hydrophobic interactions. This UHPLC/HPLC phase is suitable for LC/MS and compatible with highly aqueous mobile phases. Typical applications are aromatic and unsaturated compounds, polar compounds like pharmaceuticals and antibiotics.

TYPICAL VALUES

Property	Method of Analysis	Value	Unit
Available particle size	Coulter counter (Elzone)	2.6	μm
Particle size distribution d90/d10	Coulter counter (Elzone)	<1.2	N/A
Pore volume	Nitrogen adsorption (BET)	0.28	ml/g
Surface area	Nitrogen adsorption (BET)	130	m^2/g
Pore size	Nitrogen adsorption (BET)	90	Å
Carbon load	SS-EN 15407:2011	5	%
Ligand density	Calculated	2.5	$\mu\text{mol}/\text{m}^2$

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.

