

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ Cyano

SVEA™ Cyano is made of fully porous Type B Silica with a 3-Cyanopropyltrimethylsilane bonded phase. SVEA™ Cyano is recommended for analytes having too high retention on an alkyl-based stationary phase, as well as mixtures of very polar and lipophilic analytes. The nitrile group of the stationary phase interacts favorably with analytes containing double and/or triple bonds, making SVEA™ Cyano suitable for unsaturated compounds. Due to its very polar nature, SVEA™ Cyano can be used in both HILIC-mode as well as in normal phase chromatography.

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	7	%
Ligand density	Calculated	3.7	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.

