



# NANOLOGICA

## NLAB Saga®

SWEDISH EXCELLENCE IN NANOPOROUS SILICA

### NLAB Saga® 100Å – SIL, C4, C8 and C18 Bulk silica for analytical purposes

NLAB Saga® has been specifically developed to meet the high expectations of analytical scale, silica based, chromatography material. The unique surface chemistry and controlled particle properties of Nanologica's proprietary silica result in low back pressures and high plate numbers when slurry packed. With an exceptionally strong silica backbone, NLAB Saga® offer long lifetime and gives excellent selectivity across a wide range of chemistry needs, with an excellent batch-to-batch reproducibility.

NLAB Saga® is available as 3.5 or 5 µm particles unbonded or with C4, C8, or C18 functionalization. Other particle sizes are available upon request.

#### CHARACTERISTICS

Property	Method of Analysis	Value	Unit
Available particle sizes	Coulter counter	3.5 5	µm
Particle size distribution d90/d10	Coulter counter	3.5µm ≤ 1.5 5µm ≤ 1.5	N/A
Pore volume	N <sub>2</sub> adsorption (BET)	0.90	ml/g
Surface area	N <sub>2</sub> adsorption (BET)	320	m <sup>2</sup> /g
Pore size	N <sub>2</sub> adsorption (BET)	110	Å
Chemical purity	ICP	Al ≤ 5 Fe ≤ 5 Na ≤ 20	ppm
Carbon content	SS-EN 154707:2011	8 (C4) 12 (C8) 19 (C18)	% ds
Functional group density	Calculated	4.0 (C4) 3.9 (C8) 3.6 (C18)	µmol/m <sup>2</sup>