

SILICA SORBENT FOR HPLC

LABIOSPHER SUN 100

technical parameters

Modifications available

	C18	C8	C4	NH2	OH	PH	CN
LABIOSPHER SUN 100	yes	yes	yes	yes	yes	yes	yes

Physical and chemical properties

	Specific surface area [m ² /g]	Pore volume [ml/g]	Average pore diameter {nm}	pH (5 % suspension)	Loss of drying on 150 °C [wt %]
LABIOSPHER SUN 100	180 - 220	0,9 - 1,1	9 - 12	4,0 - 6,5	< 2

Chromatographic properties

	SUN 100	SUN 100 CN, OH	SUN 100 NH	SUN 100 C18	SUN 100 C8
Nitrobenzene [k']	0,6 - 1,1	0,6 - 1,1	0,6 - 1,1	n.a.	n.a.
Phenol [k']	n.a.			0,3 - 0,4	n.a.
Toluene [k']	n.a.			3,0 - 3,6	2,0 - 2,6
Dimethylaniline [k']				1,4 - 1,7	0,7 - 1,1

For Labiospher SUN 100 and SUN 100 CN heptane with 0,1 % of isopropanole was used as mobile phase (k' of biphenyle = 0). For Labiospher SUN 100 C18 and Labiospher SUN 100 C8 a mixture of methanole and water (7:3 v/v) was used as mobile phase (k' of thiourea = 0).

Typical efficiency of columns

Particle size [um]	5	7	10	15	20	40
LABIOSPHER SUN 100 [TP/m]	55000	50000	40000	20000	14000	5000
LABIOSPHER SUN 100 C18 [TP/m]	70000	60000	45000	25000	16000	8000

Conditions: column 4,6 x 250 mm, flow rate 0,6 ml/min, measured for nitrobenzene (SUN 100) or toluene (SUN 100 C18).