



## Nano-SIL DIOL G diol-modified HPTLC silica layers

### Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m<sup>2</sup>/g, specific pore volume 0.75 mL/g, pH stability 2–8, particle size 2–10 µm
- Indicator: acid-resistant product with a pale blue fluorescence for short-wave UV (254 nm), UV-absorbing substances appear as dark-blue to black spots on a light-blue background

### Modification

- Diol modification, carbon content 5.5 %
- Order of polarity: silica > DIOL > NH<sub>2</sub> > CN > RP-2 > C18-50 > RP-18 W > C18-100
- Layer can be wetted equally well with pure water as with organic solvents

### Recommended application

- Steroids, pesticides and plant constituents
- For critical separations an alternative to silica
- Since it is less sensitive to the water content of the environment, leads to more reproducible results compared to silica

### Separation of herbicides

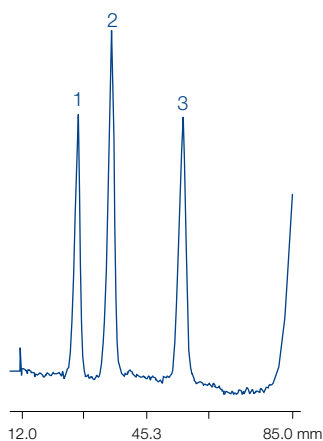
MN Appl. No. 401950

Layer: Nano-SIL DIOL/UV  
 Sample volume: 2 µL  
 Eluent: petroleum ether (40–60 °C) – acetone (80:20, v/v)  
 Migration distance: 70 mm  
 Detection: TLC scanner, 230 nm

#### Peaks:

(0.07 % each in methanol)

1. Metoxuron
2. Monuron
3. Metobromuron



### Ordering information

Plate size [cm]	10 x 10	Thickness of layer	Fluorescent indicator
Pack of [plates]	25		

### Glass plates

Nano-SIL DIOL/UV	811120	0.20 mm	UV <sub>254</sub>
------------------	--------	---------	-------------------

# Index of reference numbers

REF	Page	REF	Page	REF	Page	REF	Page
763156.20	201	763532.46	207	808013	289	811073	284
763156.30	201	763534.20	207	808023	289	811074	284
763156.40	201	763534.30	207	808033	289	811075	284
763156.46	201	763534.40	207	808043	289	811081	284
763157.20	201	763534.46	207	808053	289	811082	284
763157.30	201	763536.20	207	808063	289	811111	286
763157.40	201	763536.30	207	808072	289	811112	286
763157.46	201	763536.40	207	808073	289	811115	285
763158.20	201	763536.46	207	809011	276	811116	285
763158.30	201	763538.20	207	809012	276	811120	287
763232.20	203	763538.30	207	809013	276	812003	277
763232.30	203	763732.20	205	809017	276	812004	277
763232.40	203	763732.30	205	809017.200	276	812005	277
763232.46	203	763732.40	205	809020	276	812005.200	277
763234.20	203	763732.46	205	809021	276	812006	277
763234.30	203	763734.20	205	809022	276	812007	277
763234.40	203	763734.30	205	809023	276	812008	277
763234.46	203	763734.40	205	809027	276	812010	282
763236.20	203	763734.46	205	809027.200	276	812011	282
763236.30	203	763736.20	205	809028.100	276	812013	282
763236.40	203	763736.30	205	809033	292	812014	282
763236.46	203	763736.40	205	809043	292	814000	269
763238.20	203	763736.46	205	809051	276	814001	269
763238.30	203	763738.20	205	809053	276	814002	269
763252.20	203	763738.30	205	809061	276	814003	269
763252.30	203	801011	289	809063	276	814011	269
763252.40	203	801013	289	809073	276	814012	269
763252.46	203	801022	289	809083	276	814013	269
763254.20	203	801023	289	809121	276	814018	295
763254.30	203	801033	290	809122	276	814019	295
763254.40	203	801053	290	809123	276	814021	295
763254.46	203	801063	290	810012	279	814022	295
763256.20	203	801113	289	810013	279	814023	295
763256.30	203	801123	289	810022	279	814024	295
763256.40	203	802021	288	810023	279	814025	271
763256.46	203	802022	288	810043	293	814026	271
763257.20	203	802023	288	810053	293	814027	271
763257.30	203	803012	290	810063	292	814028	271
763257.40	203	803013	290	810123	279	814029	269
763257.46	203	803022	290	811011	281	814030	295
763258.20	203	803023	290	811012	281	814100	271
763258.30	203	804022	291	811013	281	814101	295
763332.20	209	804023	291	811021	281	814102	295
763332.30	209	805012	276	811022	281	814103	295
763332.40	209	805013	276	811023	281	814104	295
763332.46	209	805014	276	811032	279	814200	271
763334.20	209	805017	276	811042	279	814201	271
763334.30	209	805021	276	811051	292	814202	271
763334.40	209	805022	276	811052	283	814203	296
763334.46	209	805023	276	811054	283	814204	271
763336.20	209	805024	276	811055	291	814205	271
763336.30	209	805032	276	811056	291	814206	296
763336.40	209	805901	276	811057	291	814300	271
763336.46	209	805902	276	811058	291	814301	271
763338.20	209	806013	293	811059	291	814302	296
763338.30	209	806023	293	811062	283	814400	271
763532.20	207	807021	288	811064	283	814401	296
763532.30	207	807023	288	811071	284	814402	296
763532.40	207	807033	288	811072	284	814403	296