



Modified silica layers



RP-18 W/UV₂₅₄ G A octadecyl-modified HPTLC silica layers

🔧 Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 2–10 µm, for preparative plates (1 mm thickness of layer) standard silica 60, pH stability 2–10, particle size 5–17 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

- Partial octadecyl (C₁₈) modification, wettable with water, carbon content 14 %
- Order of polarity: silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100

✅ Recommended application

- NP or RP separation with eluents from anhydrous solvents to mixtures with high concentrations of water (see table and figure on previous page), relative polarity of the eluent determines the polarity of the layer
- Aminophenols, barbiturates, preservatives, nucleobases, polycyclic aromatic hydrocarbons, steroids, tetracyclines, plasticizers (phthalates)

Ordering information

Plate size [cm]	4 x 8	5 x 10	5 x 20	10 x 10	10 x 20	20 x 20	Thickness of layer	Fluorescent indicator
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Glass plates

Pack of [plates]		50	25	50	25		
RP-18 W/UV ₂₅₄		811073	811075	811072	811071	0.25 mm	UV ₂₅₄
Pack of [plates] (preparative TLC)					15		
RP-18 W/UV ₂₅₄					811074	1.00 mm	UV ₂₅₄

ALUGRAM® aluminum sheets

Pack of [plates]	50	50	50	25	25		
RP-18 W/UV ₂₅₄	818144	818152	818145	818147	818146	0.15 mm	UV ₂₅₄

RP-2/UV₂₅₄ G A "silanized silica" = dimethyl-modified standard silica layers

🔧 Technical characteristics

- Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, pH stability 2–10, particle size 5–17 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

- Silanized silica with dimethyl modification, carbon content 4 %
- Order of polarity: silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100

✅ Recommended application

- Normal phase or reversed phase separation modes with purely organic, organic - aqueous or purely aqueous eluents
- Active plant constituents, steroids

Ordering information

Plate size [cm]	10 x 20	20 x 20	Thickness of layer	Fluorescent indicator
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Glass plates

RP-2/UV ₂₅₄	811081	811082	0.25 mm	UV ₂₅₄
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ALUGRAM® aluminum sheets

RP-2/UV ₂₅₄		818171	0.15 mm	UV ₂₅₄
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