



OPTIMA 1 high performance capillary columns for GC

MACHEREY-NAGEL

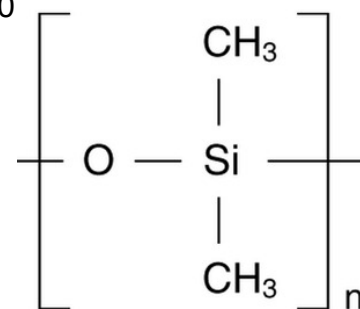
OPTIMA® 1 high performance capillary columns for GC
100% dimethylpolysiloxane

nonpolar phase separation of components according to boiling points thick film columns 3µm film are especially recommended for solvent analysis.

Similar phases: Permabond® SE-30, OV-1, DB-1, SE-30, HP-1, SPB-1, CP-Sil 5 CB, Rtx-1, 007-1, BP1, MDN-1, AT-1, ZB-1, OV-101.

For columns with 0.25 to 0.32mm ID and films 3µm the max. temperature for isothermal operation is 340°C, the max. temperature for short isotherms in a temperature programme is 360°C.

For 0.53mm ID columns with films 3µm the max. temperatures are 320 and 340°C, resp. for thick film columns with films 3µm the max. temperatures are 300 and 320 °C, resp.



Code	Description	Packaging
LLG09003657	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 25 m, Film thickness 0.1 µm	1 pz.
LLG09003658	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 30 m, Film thickness 0.1 µm	1 pz.
LLG09003659	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 60 m, Film thickness 0.1 µm	1 pz.
LLG09003662	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 25 m, Film thickness 0.25 µm	1 pz.
LLG09003663	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 30 m, Film thickness 0.25 µm	1 pz.
LLG09003664	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 50 m, Film thickness 0.25 µm	1 pz.
LLG09003665	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 60 m, Film thickness 0.25 µm	1 pz.
LLG09003667	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 25 m, Film thickness 0.5 µm	1 pz.
LLG09003668	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 30 m, Film thickness 0.5 µm	1 pz.
LLG09003669	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 50 m, Film thickness 0.5 µm	1 pz.
LLG09003670	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 60 m, Film thickness 0.5 µm	1 pz.
LLG09003671	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 25 m, Film thickness 1 µm	1 pz.
LLG09003672	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 30 m, Film thickness 1 µm	1 pz.
LLG09003673	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 50 m, Film thickness 1 µm	1 pz.



Code	Description	Packaging
LLG09003674	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.25 mm, Ext. diam. 0.4 mm, Length 60 m, Film thickness 1 µm	1 pz.
LLG09003676	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 0.1 µm	1 pz.
LLG09003677	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 0.1 µm	1 pz.
LLG09003678	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 0.1 µm	1 pz.
LLG09003679	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 0.1 µm	1 pz.
LLG09003682	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 0.25 µm	1 pz.
LLG09003683	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 0.25 µm	1 pz.
LLG09003684	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 0.25 µm	1 pz.
LLG09003685	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 0.25 µm	1 pz.
LLG09003686	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 0.35 µm	1 pz.
LLG09003687	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 0.35 µm	1 pz.
LLG09003688	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 0.35 µm	1 pz.
LLG09003689	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 0.35 µm	1 pz.
LLG09003691	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 0.5 µm	1 pz.



Code	Description	Packaging
LLG09003692	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 0.5 µm	1 pz.
LLG09003693	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 0.5 µm	1 pz.
LLG09003694	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 0.5 µm	1 pz.
LLG09003697	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 1 µm	1 pz.
LLG09003698	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 1 µm	1 pz.
LLG09003699	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 1 µm	1 pz.
LLG09003700	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 1 µm	1 pz.
LLG09003701	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 3 µm	1 pz.
LLG09003702	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 3 µm	1 pz.
LLG09003703	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 3 µm	1 pz.
LLG09003704	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 60 m, Film thickness 3 µm	1 pz.
LLG09003706	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 25 m, Film thickness 5 µm	1 pz.
LLG09003707	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 30 m, Film thickness 5 µm	1 pz.
LLG09003708	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.32 mm, Ext. diam. 0.5 mm, Length 50 m, Film thickness 5 µm	1 pz.



Code	Description	Packaging
LLG04003149	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 25 m, Film thickness 0.5 µm	1 pz.
LLG04003150	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 30 m, Film thickness 0.5 µm	1 pz.
LLG04003152	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 25 m, Film thickness 2 µm	1 pz.
LLG04003153	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 30 m, Film thickness 2 µm	1 pz.
LLG04003164	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 25 m, Film thickness 1 µm	1 pz.
LLG04003165	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 30 m, Film thickness 1 µm	1 pz.
LLG04003265	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 25 m, Film thickness 5 µm	1 pz.
LLG04003266	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 30 m, Film thickness 5 µm	1 pz.
LLG04003267	OPTIMA® 1 high performance capillary columns for GC, Int. diam. 0.53 mm, Ext. diam. 0.8 mm, Length 30 m, Film thickness 5 µm	1 pz.



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