

GC columns

GC column selection by United States Pharmacopeia (USP) classifications

Need to comply with method requirements?

The USP codes are listed below with the appropriate Thermo Scientific™ gas chromatography (GC) column offerings included for your convenience. In some cases, there is more than one phase that matches the phase description. When in doubt, it is recommended that you consult the original complete method or contact our technical support team for additional information or help in choosing the correct column for your application.

- Searching for alternative columns?
- Existing column or supplier not available anymore?
- Need to modernize existing methods to increase lab productivity?



GC column selection by USP classifications

USP code	Phase composition	Recommended phase
G1	Dimethylpolysiloxane oil	Thermo Scientific™ TraceGOLD™ TG-1MS GC Columns
		Thermo Scientific™ TraceGOLD™ TG-1MT Metal GC Columns
		Thermo Scientific™ TRACE™ TR-1MS GC Columnss
		Thermo Scientific™ TRACE™ TR-1 GC Columns
G2	Dimethylpolysiloxane gum	TraceGOLD TG-1MS GC Columns
		TraceGOLD TG-1MT Metal GC Columns
		TRACE TR-1MS GC Columns
G3	50% phenyl 50% methylpolysiloxane	TRACE TR-1 GC Columns
		Thermo Scientific™ TraceGOLD™ TG-17MS GC Columns
		Thermo Scientific™ TraceGOLD™ TG-17SiIMS GC Columns
		Thermo Scientific™ TRACE™ TR-50MS GC Columns

GC column selection by USP classifications (continued)

USP code	Phase composition	Recommended phase
G5	3-cyanopropyl polysiloxane	Thermo Scientific™ TraceGOLD™ TG-POLAR GC Columns
		Thermo Scientific™ TRACE™ TR-FAME GC Columns
G6	Trifluoropropyl methylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-200MS GC Columns
G7	50% cyanopropyl phenylmethyl polysiloxane	Thermo Scientific™ TraceGOLD™ TG-225MS GC Columns
G8	90% 3-cyanopropyl 10% phenylmethylsiloxane	TraceGOLD TG-POLAR GC Columns
G16	Polyethylene glycol compound (average molecular weight of 15,000) with Diepoxide Linker	TraceGOLD TG-WaxMS GC Columns
		TraceGOLD TG-WaxMT Metal GC Columns
		TRACE TR-WaxMS GC Columns
		TRACE TR-Wax GC Columns
G17	75% phenyl 25% methylpolysiloxane	TraceGOLD TG-17SiIMS GC Columns
G19	25% phenyl 25% cyanopropylmethylsilicone	TraceGOLD TG-225MS GC Columns
G20	Polyethylene glycol (average molecular weight of 380 – 420)	TraceGOLD TG-WaxMS GC Columns
		TraceGOLD TG-WaxMT Metal GC Columns
		TRACE TR-WaxMS GC Columns
		TRACE TR-Wax GC Columns
G25	Polyethylene glycol TPA (carbowax 20 M terephthalic acid)	Thermo Scientific™ TraceGOLD™ TG-WaxMS A GC Columns
		Thermo Scientific™ TRACE™ TR-FFAP GC Columns
G27	5% phenyl 95% methylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-5MS GC Columns
		Thermo Scientific™ TraceGOLD™ TG-5SiIMS GC Columns
		Thermo Scientific™ TraceGOLD™ TG-5MT Metal GC Columns
		Thermo Scientific™ TRACE™ TR-5MS GC Columns
		Thermo Scientific™ TRACE™ TR-5HT GC Columns
		Thermo Scientific™ TRACE™ TR-5 GC Columns
G28	25% phenyl 75% methylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-35MS GC Columns
		Thermo Scientific™ TRACE™ TR-35MS GC Columns
G32	20% phenylmethyl 80% dimethylpolysiloxane	TraceGOLD TG-35MS GC Columns
		TRACE TR-35MS GC Columns
G35	Polyethylene glycol and diepoxide esterified with nitroterephthalic acid	TraceGOLD TG-WaxMS A GC Columns
		TRACE TR-FFAP GC Columns
		TraceGOLD TG-5MS GC Columns
G36	1% vinyl 5% phenylmethylpolysiloxane	TraceGOLD TG-5SiIMS GC Columns
		TraceGOLD TG-5MT Metal GC Columns
		TRACE TR-5MS GC Columns
		TRACE TR-5HT GC Columns
		TRACE TR-5 GC Columns

GC column selection by USP classifications (continued)

USP code	Phase composition	Recommended phase
G38	Phase G1 containing a small percentage of tailing inhibitor	TraceGOLD TG-1MS GC Columns
		TraceGOLD TG-1MT Metal GC Columns
		TRACE TR-1MS GC Columns
		TRACE TR-1 GC Columns
G39	Polyethylene glycol (average molecular weight of 1,500)	TraceGOLD TG-WaxMS GC Columns
		TraceGOLD TG-WaxMT Metal GC Columns
		TRACE TR-WaxMS GC Columns
G42	35% phenyl 65% dimethylpolysiloxane (percentages refer to molar substitution)	TraceGOLD TG-35MS GC Columns
		TRACE TR-35MS GC Columns
G43	6% cyanopropylphenyl 94% dimethylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-624 GC Columns
		Thermo Scientific™ TraceGOLD™ TG-624SiIMS GC Columns
		Thermo Scientific™ TraceGOLD™ TG-1301MS GC Columns
		Thermo Scientific™ TRACE™ TR-V1 GC Columns
G45	Divinylbenzene-ethylene glycol-dimethylacrylate	Thermo Scientific™ TraceGOLD™ TG-BOND U GC Columns
G46	14% cyanopropylphenyl 86% methylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-1701MS GC Columns
		Thermo Scientific™ TRACE™ TR-1701 GC Columns
G48	Highly polar, partially cross-linked cyanopolysiloxane	TraceGOLD TG-POLAR GC Columns
G51	50% phenyl 50% dimethylpolysiloxane	Thermo Scientific™ TraceGOLD™ TG-PAH GC Columns

 Learn more at thermofisher.com/gccolumns