

Within NIOSH methodology you have the possibility to use high resolution capillary columns to do your analysis: Below you will find a list of recommended capillary columns for each NIOSH method. The recommended column is the best possible recommendation for the particular NIOSH method

Recommended Columns for NIOSH regulatory methods

| Niosh method | Application | Recommended capillary columns | df | Part No. |
|--------------|---|-------------------------------|-------------|----------|
| 1000 | Allyl chloride | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1001 | Methyl chloride | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1002 | Chloroprene | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1003 | Halogenated hydrocarbons | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1004 | sym dichloro ethylether | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1005 | Methylene chloride | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1006 | Trichlorofluoromethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1007 | Vinylchloride | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1008 | Ethylenedibromide | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1009 | Vinyl bromide | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1010 | Epichlorohydrin | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1011 | Ethylbromide | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1012 | Dibromodifluoromethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1013 | 1,2-dichloropropane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1014 | Methyl iodide | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1015 | Vinilidene chloride | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1016 | 1,1,1,2-tetrachloro-2,2-difluoroethane and 1,1,2,2-tetrachloro-1,2-difluoroethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1017 | Bromotrifluoromethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1018 | Dichlorodifluoromethane and 1,2-Dichlorotetrafluoroethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1019 | 1,1,2,2-tetrachloroethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1020 | 1,1,2-trichloro-1,2,2-trifluoroethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1022 | trichloroethylene | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 1024 | Butadiene 1,3 | 50 m x 0.53 mm CP-Al2O3/KCl | df = 10 µm | CP7518 |
| 1300 | Ketones 1 | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 1301 | Ketones 2 | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 1400 | Alcohols 1 | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 1401 | Alcohols 2 | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 1402 | Alcohols 3 | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 1403 | Alcohols 4 | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1450 | Esters | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |

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| 1500 | Hydrocarbons | 30 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8912 |
| 1501 | Hydrocarbons Aromatic | 30 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8944 |
| 1550 | Naphthas | 60 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8916 |
| 1551 | Terpentine | 60 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8916 |
| 1600 | Carbondisulfide | 25 m x 0.53 mm CP-PoraBOND Q | df = 10 µm | CP7354 |
| 1602 | Dioxane | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1603 | Acetic acid | 25 m x 0.25 mm CP-Wax (FFAP)CB | df = 0.2 µm | CP7717 |
| 1604 | Acrylonitrile | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1606 | Acetonitrile | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1608 | Glycidol | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1609 | Tetrahydrofuran | 15 m x 0.25 mm CP-Sil 5 CB | df = 0.25 µm | CP8510 |
| 1610 | Ethylether | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1611 | Methylal | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1612 | propylene oxide | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1613 | Pyridine | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1614 | Ethylene oxide | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 1615 | methyl tert-butyl ether | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2000 | methanol | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2001 | Cresols | 50 m x 0.25 mm CP-Cresol | df = 0.2 µm | CP7526 |
| 2002 | Amines aromatic | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| 2003 | 1,1,2,2-tetrabromomethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 2004 | Dimethylacetamide and dimethylformamide | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2005 | Nitrobenzenes | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2007 | aminoethanol components | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 2010 | amines, aliphatic | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| 2500 | 2-Butanone | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2501 | Acrolein | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2503 | Mevinphos | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 2504 | Tetraethyl pyrophosphate | 15 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8907 |
| 2505 | Furfuryl alcohol | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2506 | Acetone cyanohydrin | 15 m x 0.25 mm VF-1ms | df = 1.0 µm | CP8909 |
| 2507 | Nitroglycerin and ethyleneglycol dinitrate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |

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| 2508 | Isophorone | 15 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8907 |
| 2510 | 1-Octanethiol | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 2513 | Ethylene chlorohydrin | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2515 | Diazomethane | 15 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8907 |
| 2516 | Dichlorofluoromethane | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 2517 | Pentachloroethane | 30 m x 0.25 mm VF-5ms | df = 0.5 µm | CP8945 |
| 2518 | Hexachloro-1,3-pentadiene | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| 2519 | Ethylchloride | 30 m x 0.32 mm CP-Sil 5 CB | df = 3.0 µm | CP8687 |
| 2520 | Methylbromide | 30 m x 0.32 mm CP-Sil 5 CB | df = 3.0 µm | CP8687 |
| 2521 | Methylcyclohexanone | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 2522 | Nitrosamines | 30 m x 0.25 mm VF-5ms | df = 0.5 µm | CP8945 |
| 2523 | 1,3-Cyclopentadiene | 15 m x 0.32 mm VF-1ms | df = 1.0 µm | CP8920 |
| 2524 | Dimethylsulfate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2525 | 1-Butanethiol | 15 m x 0.32 mm VF-1ms | df = 1.0 µm | CP8920 |
| 2526 | Nitroethane | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2527 | Nitromethane | 30 m x 0.25 mm VF-5ms | df = 0.5 µm | CP8945 |
| 2528 | 2-Nitropropane | 30 m x 0.25 mm VF-5ms | df = 0.5 µm | CP8945 |
| 2529 | Furfural | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 2530 | Biphenyl | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 2531 | Gluteraldehyde | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 2533 | Tetraethyl lead | 15 m x 0.25 mm CP-Sil 8 CB | df = 1.0 µm | CP8521 |
| 2534 | Tetramethyl lead | 15 m x 0.25 mm CP-Sil 8 CB | df = 1.0 µm | CP8521 |
| 2536 | Valeraldehyde | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2537 | Methylmethacrylate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 2538 | Acetaldehyde | 15 m x 0.32 mm CP-1301 | df = 1.0 µm | CP8609 |
| 2539 | Aldehydes, screening | 30 m x 0.32 mm CP-Sil 5 CB | df = 0.25 µm | CP8742 |
| 2541 | Formaldehyde | 30 m x 0.32 mm CP-Sil 5 CB | df = 5.0 µm | CP8688 |
| 3502 | Phenol | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 3700 | Benzene | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| 3702 | Ethylene oxide | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 4000 | Toluene | 30 m x 0.25 mm CP-Sil 8 CB | df = 0.25 µm | CP8751 |
| 5012 | EPN, Malathion and Parathion | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 5014 | Chlorinated Terpenyl (60%chloride) | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 5017 | Dibutyl phosphate | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 5019 | Azelaic acid | 15 m x 0.32 mm VF-1ms | df = 1.0 µm | CP8920 |

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| 5020 | Dibutyl phthalate Di-2-ethyl-hexyl-phthalate | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 5021 | o-Terpenyl | 30 m x 0.25 mm VF-1ms | df = 0.25 µm | CP8912 |
| 5025 | Chlorinated diphenylether | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 5029 | 4,4-Diphenylenedianiline | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| 5500 | Ethylene glycol | 25 m x 0.25 mm CP-Wax 57 CB for Glycols | df = 0.2 µm | CP7615 |
| 5502 | Aldrin and Lindane | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481. |
| 5503 | Polychlorobiphenyls | 50 m x 0.25 mm CP-Sil 8 CB for PCB's | df = 0.25 µm | CP7482 |
| 5506 | Polynuclear Aromatic Hydrocarbons | 25 m x 0.25 mm CP-Sil PAH CB | df = 0.2 µm | CP7440 |
| 5509 | Benzidine and 3,3-dichlorobenzidine | 15 m x 0.53 mm CP-Sil 8 CB | df = 1.5 µm | CP8678 |
| 5510 | Chlordane | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481 |
| 5514 | Demeton | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481 |
| 5515 | Polynuclear Aromatic Hydrocarbons | 25 m x 0.25 mm CP-Sil PAH CB | df = 0.2 µm | CP7440 |
| 5516 | 2,4- and 2,6-toluene diamine | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| 5517 | Polychlorobenzenes | 15 m x 0.25 mm CP-Sil 8 CB Low-Bleed/MS | df = 0.25 µm | CP5868 |
| 5518 | Naphthylamines | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| 5519 | Endrin | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481 |
| 8001 | Pentachlorophenol | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 8004 | 2-Butanone, ethanol and toluene in blood | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| 8302 | MBOC | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 8305 | Pentachlorophenol | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| 8306 | Benzidine | 30 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8944 |
| P&CAM 278 | Vinylacetate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| P&CAM 307 | Hexachlorobutadiene | 30 m x 0.25 mm CP-Sil 5 CB | df = 1.0 µm | CP8770 |
| P&CAM 337 | p-Chlorophenol | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| S-11 | Chloroacetaldehyde | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| S-36 | Ethyl formate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| S-38 | Methylacrylate | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-39 | Methyl cellosolve | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-42 | Methyl acetate | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-49 | Ethyl acetate | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-50 | Isopropyl acetate | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| S-67 | Toxaphene | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481 |
| S-72 | Phenyl ether | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| S-74 | Phenyl ether-biphenyl mixture | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |

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|-------|-------------------------|---|--------------|--------|
| S-77 | Isopropyl Glycidylether | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-81 | n-Butyl glycidyl ether | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |
| S-138 | n-Butylamine | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| S-153 | Monomethylamine | 60 m x 0.32 mm CP-Volamine | | CP7448 |
| S-158 | 2-Aminopyridine | 30 m x 0.25 mm CP-Sil 8 CB for amines | df = 0.5 µm | CP7595 |
| S-208 | Tributylphosphate | 15 m x 0.25 mm VF-5ms | df = 0.25 µm | CP8939 |
| S-249 | Carbon dioxide | 25 m x 0.53 mm CP-PoraPLOT Q | df = 20 mm | CP7554 |
| S-299 | Ronnel | 50 m x 0.25 mm CP-Sil 8 CB for pesticides | df = 0.12 µm | CP7481 |
| S-346 | Allyl glycidyl ether | 15 m x 0.32 mm CP-Sil 5 CB | df = 1.0 µm | CP8540 |
| S-368 | Isopropyl ether | 15 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8553 |
| S-374 | Methylcyclohexanol | 30 m x 0.32 mm CP-Wax 52 CB | df = 0.5 µm | CP8763 |