# Analytical Method Information

| Analyte | DL | LOD | LOQ / RL | Surrogate %R | Duplicate RPD | Matrix Spike %R | Matrix Spike RPD | Blank Spike / LCS %R | Blank Spike / LCS RPD |
|---|---|---|---|---|---|---|---|---|---|
| **8260C VOA (EPA 8260C) in Solid** | | | | | | | | | |
| **Preservation:** Na2SO3, Cool <6°C | | | | | | | | | |
| **Container:** VOA Vial, Clear, 40 mL, NaHSO4 | | **Minimum Sample Weight:** 120 mL | | | **Hold Time:** 14 days | | | | |
| Chloromethane | 0.263 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 64 - 132 | 30 | 64 - 132 | 30 |
| Vinyl Chloride | 0.235 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 135 | 30 | 74 - 135 | 30 |
| Bromomethane | 0.187 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 53 - 144 | 30 | 53 - 144 | 30 |
| Chloroethane | 0.462 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 55 - 149 | 30 | 55 - 149 | 30 |
| Trichlorofluoromethane | 0.266 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 61 - 164 | 30 | 61 - 164 | 30 |
| Acrolein | 3.81 ug/kg | 5.00 ug/kg | 5.00 ug/kg | | 30 | 59 - 140 | 30 | 59 - 140 | 30 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 0.287 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 74 - 143 | 30 | 74 - 143 | 30 |
| Acetone | 0.482 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 48 - 137 | 30 | 48 - 137 | 30 |
| 1,1-Dichloroethene | 0.336 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 77 - 134 | 30 | 77 - 134 | 30 |
| Bromoethane | 0.440 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 65 - 145 | 30 | 65 - 145 | 30 |
| Iodomethane | 0.215 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 31 - 162 | 30 | 31 - 162 | 30 |
| Methylene Chloride | 0.635 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 69 - 129 | 30 | 69 - 129 | 30 |
| Acrylonitrile | 1.03 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 69 - 134 | 30 | 69 - 134 | 30 |
| Carbon Disulfide | 0.559 ug/kg | 1.00 ug/kg | 1.00 ug/kg | | 30 | 71 - 137 | 30 | 71 - 137 | 30 |
| trans-1,2-Dichloroethene | 0.266 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 79 - 130 | 30 | 79 - 130 | 30 |
| Vinyl Acetate | 0.381 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 66 - 141 | 30 | 66 - 141 | 30 |
| 1,1-Dichloroethane | 0.203 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 126 | 30 | 80 - 126 | 30 |
| 2-Butanone | 0.513 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 70 - 132 | 30 | 70 - 132 | 30 |
| 2,2-Dichloropropane | 0.292 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 77 - 138 | 30 | 77 - 138 | 30 |
| cis-1,2-Dichloroethene | 0.240 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 125 | 30 | 80 - 125 | 30 |
| Chloroform | 0.234 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 126 | 30 | 80 - 126 | 30 |
| Bromochloromethane | 0.323 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 129 | 30 | 80 - 129 | 30 |
| 1,1,1-Trichloroethane | 0.226 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 78 - 133 | 30 | 78 - 133 | 30 |
| 1,1-Dichloropropene | 0.312 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 79 - 120 | 30 | 79 - 120 | 30 |

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| Analyte | DL | LOD | LOQ / RL | Surrogate %R | Duplicate RPD | Matrix Spike %R | Matrix Spike RPD | Blank Spike / LCS %R | Blank Spike / LCS RPD |
|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 0.213 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 71 - 129 | 30 | 71 - 129 | 30 |
| 1,2-Dichloroethane | 0.191 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 76 - 120 | 30 | 76 - 120 | 30 |
| Benzene | 0.296 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| Trichloroethene | 0.212 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| 1,2-Dichloropropane | 0.162 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 79 - 120 | 30 | 79 - 120 | 30 |
| Bromodichloromethane | 0.254 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 122 | 30 | 80 - 122 | 30 |
| Dibromomethane | 0.147 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| 2-Chloroethyl vinyl ether | 0.276 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 51 - 129 | 30 | 51 - 129 | 30 |
| 4-Methyl-2-Pentanone | 0.420 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 73 - 121 | 30 | 73 - 121 | 30 |
| cis-1,3-Dichloropropene | 0.226 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 88 - 120 | 30 | 80 - 120 | 30 |
| Toluene | 0.151 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 75 - 120 | 30 | 75 - 120 | 30 |
| trans-1,3-Dichloropropene | 0.216 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 124 | 30 | 80 - 124 | 30 |
| 2-Hexanone | 0.439 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 68 - 122 | 30 | 68 - 122 | 30 |
| 1,1,2-Trichloroethane | 0.286 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 79 - 120 | 30 | 79 - 120 | 30 |
| 1,3-Dichloropropane | 0.209 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 78 - 120 | 30 | 78 - 120 | 30 |
| Tetrachloroethene | 0.257 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 124 | 30 | 74 - 124 | 30 |
| Dibromochloromethane | 0.266 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 125 | 30 | 74 - 125 | 30 |
| 1,2-Dibromoethane | 0.176 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| Chlorobenzene | 0.219 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 78 - 120 | 30 | 78 - 120 | 30 |
| Ethylbenzene | 0.202 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 125 | 30 | 80 - 125 | 30 |
| 1,1,1,2-Tetrachloroethane | 0.233 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| m,p-Xylene | 0.392 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 76 - 121 | 30 | 76 - 121 | 30 |
| o-Xylene | 0.224 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 67 - 132 | 30 | 67 - 132 | 30 |
| Xylenes, total | 0.616 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 67 - 132 | 30 | 67 - 132 | 30 |
| Styrene | 0.138 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 80 - 120 | 30 | 80 - 120 | 30 |
| Bromoform | 0.297 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 64 - 128 | 30 | 64 - 128 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.253 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 120 | 30 | 74 - 120 | 30 |
| 1,2,3-Trichloropropane | 0.517 ug/kg | 1.00 ug/kg | 2.00 ug/kg | | 30 | 73 - 120 | 30 | 73 - 120 | 30 |

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|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro 2-Butene | 0.437 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 65 - 125 | 30 | 65 - 125 | 30 |
| n-Propylbenzene | 0.272 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 72 - 124 | 30 | 72 - 124 | 30 |
| Bromobenzene | 0.153 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 76 - 120 | 30 | 76 - 120 | 30 |
| Isopropyl Benzene | 0.233 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 121 | 30 | 74 - 121 | 30 |
| 2-Chlorotoluene | 0.300 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 75 - 120 | 30 | 75 - 120 | 30 |
| 4-Chlorotoluene | 0.277 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 69 - 124 | 30 | 69 - 124 | 30 |
| t-Butylbenzene | 0.306 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 72 - 122 | 30 | 72 - 122 | 30 |
| 1,3,5-Trimethylbenzene | 0.254 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 74 - 122 | 30 | 74 - 122 | 30 |
| 1,2,4-Trimethylbenzene | 0.230 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 75 - 121 | 30 | 75 - 121 | 30 |
| s-Butylbenzene | 0.240 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 70 - 128 | 30 | 70 - 128 | 30 |
| 4-Isopropyl Toluene | 0.236 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 75 - 125 | 30 | 75 - 125 | 30 |
| 1,3-Dichlorobenzene | 0.227 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 75 - 120 | 30 | 75 - 120 | 30 |
| 1,4-Dichlorobenzene | 0.232 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 73 - 120 | 30 | 73 - 120 | 30 |
| n-Butylbenzene | 0.262 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 73 - 130 | 30 | 73 - 130 | 30 |
| 1,2-Dichlorobenzene | 0.293 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 76 - 120 | 30 | 76 - 120 | 30 |
| 1,2-Dibromo-3-chloropropane | 0.586 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 65 - 126 | 30 | 65 - 126 | 30 |
| 1,2,4-Trichlorobenzene | 0.332 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 66 - 140 | 30 | 66 - 140 | 30 |
| Hexachloro-1,3-Butadiene | 0.410 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 67 - 133 | 30 | 67 - 133 | 30 |
| Naphthalene | 0.429 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 69 - 125 | 30 | 69 - 125 | 30 |
| 1,2,3-Trichlorobenzene | 0.305 ug/kg | 2.50 ug/kg | 5.00 ug/kg | | 30 | 68 - 132 | 30 | 68 - 132 | 30 |
| Dichlorodifluoromethane | 0.207 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 67 - 142 | 30 | 67 - 142 | 30 |
| Methyl tert-butyl Ether | 0.231 ug/kg | 0.500 ug/kg | 1.00 ug/kg | | 30 | 79 - 127 | 30 | 79 - 127 | 30 |
| 2-Pentanone | 5.00 ug/kg | 5.00 ug/kg | 5.00 ug/kg | | 30 | 77 - 120 | 30 | 77 - 120 | 30 |
| surr: 1,2-Dichloroethane-d4 | | | | 80 - 149 | | | | | |
| surr: Toluene-d8 | | | | 77 - 120 | | | | | |
| surr: 4-Bromofluorobenzene | | | | 80 - 120 | | | | | |
| surr: 1,2-Dichlorobenzene-d4 | | | | 80 - 120 | | | | | |
| Pentafluorobenzene | | | | | | | | | |

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| Analyte | DL | LOD | LOQ / RL | Surrogate %R | Duplicate RPD | Matrix Spike %R | Matrix Spike RPD | Blank Spike / LCS %R | Blank Spike / LCS RPD |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene-d5 | | | | | | | | | |
| 1,4-Difluorobenzene | | | | | | | | | |
| 1,4-Dichlorobenzene-d4 | | | | | | | | | |