

FDM VPFTIR Organics (5220 Spectra)

These transmission vapor phase FTIR (VPFTIR) spectra are a combination of 3100 gas cell spectra and 2120 HP GC-IRD spectra. The gas cell spectra are a rigorously edited version of the original EPA VPFTIR spectra. The spectral range is 550 cm⁻¹ to 3800 cm⁻¹ and the optical resolution is 8 cm⁻¹.

With 5220 spectra this covers many chemical classes in rich detail. The gas cell spectra include many compounds of environmental and general interest. There is considerable content regarding legal and illegal drugs. Of great interest to GC users are the hundreds of derivatives. For instance, there are 423 esters. The sample below shows the rich detail from Pentanol to Propyne.

Sample from the chemical name index (name, CAS number):

1-Pentanol, 2,2,4-trimethyl-, 123-44-4	1-Phenyltridecane, 123-02-4
1-Pentanol, 2-ethyl-4-methyl-, 106-67-2	1-Piperazincarboxylic acid, methyl ester
1-Pentanol, 2-methyl-, 105-30-6	1-Piperidinepropanol, 104-58-5
1-Pentanol, 2-methyl-2-propyl-, 57409-52-6	1-Piperidinepropanol, 2-methyl-, 94-88-2
1-Pentanol, 3-methyl-, 589-35-5	1-Piperidinesuccinic acid, dimethyl ester, 16217-48-4
1-Pentanol, 3-methyl-2-phenyl-, 36748-84-2	1-Propanamine, 107-10-8
1-Pentanol, 4-methyl-, 626-89-1	1-Propanamine, 2-methyl-N-(2-methylpropyl)-
1-Pentanol, 71-41-0	1-Propanamine, 3-ethoxy-, 6291-85-6
1-Pentanone, 1-(4-fluorophenyl)-, 709-24-0	1-Propanamine, 3-methoxy-, 5332-73-0
1-Penten-2-ol, 616-25-1	1-Propanamine, N,N-dipropyl-, 102-69-2
1-Penten-3-ol, 2-methyl-, 68-85-4	1-Propanamine, N-nitroso-N-propyl-, 621-64-7
1-Penten-3-ol, 4-methyl-, 4798-45-2	1-Propanethiol, 107-03-9
1-Pentene, 109-67-1	1-Propanol, 2,3-dibromo-, 96-13-9
1-Pentene, 2-methyl-, 763-29-1	1-Propanol, 2-amino-2-methyl-, 124-68-5
1-Pentene, 4-methyl-, 691-37-2	1-Propanol, 2-diethylamino-, 611-12-1
1-Pentyn-3-ol, 4187-86-4	1-Propanol, 2-dodecyloxy-3-tetradecyloxy-
1-Pentyne, 627-19-0	1-Propanol, 2-methyl-, 78-83-1
1-Phenyl-1,3-butanedione, 93-91-4	1-Propanol, 3-amino-, 156-87-6
1-Phenyl-1-butanol, 22144-60-1	1-Propanol, 3-chloro-, 627-30-5
1-Phenyl-1-butanone, 495-40-9	1-Propanol, 71-23-8
1-Phenyl-1-butyne, 622-76-4	1-Propanol, dl-2-benzylamino-, 6940-81-4
1-Phenyl-1-cyclohexanecarbonitrile, 2201-23-2	1-Propanone, 1-(2,4-dimethoxyphenyl)-, 831-00-5
1-Phenyl-1-cyclopropanecarbonitrile, 935-44-4	1-Propanone, 1-(4-fluorophenyl)-, 456-03-1
1-Phenyl-1-decanone, 6048-82-4	1-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-,
1-Phenyl-1-heptyne, 14374-45-9	1-Propanone, 1-(4-methoxyphenyl)-, 121-97-1
1-Phenyl-1-hexyne, 1129-65-3	1-Propanone, 1-phenyl-, 93-55-0
1-Phenyl-1-nonyne, 57718-18-0	1-Propanone, 2-methyl-1-phenyl-, 611-70-1
1-Phenyl-1-pentanone, 1009-14-9	1-Propen-2-ol, acetate, 108-22-5
1-Phenyl-1-pentyne, 4250-81-1	1-Propene, 1,2,3,3-tetrachloro-, 20589-85-9
1-Phenyl-1-propanol, 1335-12-2	1-Propene, 1,2,3-trichloro-, 96-19-5
1-Phenyl-2-butanone, 1007-32-5	1-Propene, 2-methyl-, 115-11-7
1-Phenyl-2-propyn-1-ol, 4187-87-5	1-Propene, 3,3'-thiobis-, 592-88-1
1-Phenyl-3,4-dihydronaphthalene, 7469-40-1	1-Propene, 3-bromo-, 106-95-6
1-Phenylcyclohexane, 771-98-2	1-Propene, 3-chloro-, 107-05-1
1-Phenylcyclohexanol, 1589-60-2	1-Propene, 3-chloro-2-methyl-, 563-47-3
1-Phenylcyclopentene, 825-54-7	1-Propylcyclohexanol, 5445-24-9
1-Phenylimidazole, 7164-98-9	1-Propylcyclopentanol, 1604-02-0
1-Phenyl-naphthalene, 605-02-7	1-Propyne, 3-bromo-, 106-96-7