FDM HiRes VPFTIR for Search(438 Spectra)

These qualitiative vapor phase FTIR (VPFTIR) spectra were originally quantitative model spectra built from sets of quantitative data run at approximately 0.125 cm-1 optical resolution. To make these excellent spectra useful for searching purposes the data were deresolved via rigorous methods to 2 cm-1. The spectral range is 600 cm-1 to 4000 cm-1. Best for comparison with room temperature spectra.

This library covers organic and inorganic gases of industrial and environmental importance.

Covers:

Fluorcarbons
Alcohols
Aldehydes
Alkanes
Alkyl Halides
Amines
Anhydrides
Aromatics
Carboxylic Acids
Ethers
Inorganics
Ketones
Nitrogen Oxides
Sulfides
Sulfur Oxides

Samples from the chemical name index (name, CAS number, molecular formula):

1,1,1,2,3,3,3-Heptafluoropropane, 431-89-0, C3HF7
1,1,1,2-Tetrachloroethane, 630-20-6, C2H2Cl4
1,1,1,2-Tetrafluoroethane, 811-97-2, C2H2F4
1,1,1-Chlorodifluoroethane, 75-68-3, C2H3ClF2
1,1,1-Trichloroethane, 71-55-6, C2H3Cl3
1,1,1-Trifluoroacetone, 421-50-1, C3H3F3O
1,1,1-Trifluoroethane, 420-46-2, C2H3F3
1,1,2,2-Tetrachloro-1-fluoroethane, 354-14-3, C2Cl4FH
1,1,2,2-Tetrachloroethane, 79-34-5, C2H2Cl4
1,1,2,2-Tetrafluoroethane, 359-35-3, C2H2F4
1,1,2-Trichloroethane, 79-00-5, C2H3Cl3
1,1,2-Trichlorortifluoroethane, 76-13-1, C2CL3F3
1,1-Dichloro-1-fluoroethane,, 1717-00-6, C2H3Cl2F
1,1-Dichloroethane, 75-34-3, C2H4CL2
1,1-Dichloroethene, 75-35-4, C2H2Cl2
1,1-Difluoro-2,2-dichloroethane, 471-43-2, C2H2Cl2F2
1,1-Difluoroethane, 75-37-6, C2H4F2
1,1-Dimethylhydrazine, 57-14-7, C2H8N2
…
Acetaldehyde, 75-07-0, C2H4O
Acetic acid, 64-19-7, C2H4O2
Acetic acid dimer, 6993-75-5, C4H8O4
Acetic anhydride, 108-24-7, C4H6O3
Acetone, 67-64-1, C3H6O
Acetone cyanohydrin, 75-86-5, C4H7NO
Acetonitrile, 75-05-8, C2H3N
Acetyl chloride, 75-36-5, C2H3ClO
Acetylene, 74-86-2, C2H2
Acrolein, 107-02-8, C3H4O
Acrylonitrile, 107-13-1, C3H3N
Acryloyl chloride, 814-68-6, C3H3ClO
Allene,, 463-49-0, C3H4
Allyl alcohol, 107-18-6, C3H6O
Allyl bromide, 106-95-6, C3H5Br
Allyl chloride, 107-05-1, C3H5Cl
Allyl fluoride, 818-92-8, C3H5F
Allyl iodide, 556-56-9, C3H5I
Allyl Isothiocyanate, 57-06-7, C4H5NS
Allylamine, 107-11-9, C3H7N
Ammonia, 7664-41-7, H3N
Amyl nitrate, 1002-16-0, C5H11NO3
…
Trichlorofluoroethylene, 359-29-5, C2Cl3F
Trichlorofluoromethane, 75-69-4, CCl3F
Triethylamine, 121-44-8, C6H15N
Trifluormethyl sulfurpentafluoride, 373-80-8, CF8S
Trifluoroacetic acid, 76-05-1, C2HF3O2
Trifluoroacetic anhydride, 407-25-0, C4F6O3
Trifluoroacetylchloride, 354-32-5, C2ClF3O
Trifluoromethane, Freon-23, 75-46-7, CHF3
Trifluoronitrosomethane, 334-99-6, CF3NO
Trimethylamine, 75-50-3, C3H9N
Tungsten hexafluoride, 7783-82-6, F6W
Vinyl acetate, 108-05-4, C4H6O2
Vinyl bromide, 593-60-2, C2H3Br
Vinyl chloride, 75-01-4, C2H3Cl
Vinyl fluoride, 75-02-5, C2H3F