

FDM ATR Organics Diamond (1515 Spectra)
FDM ATR Organics Germanium (422 Spectra)

The spectra run on a single bounce monolithic Diamond ATR crystal have a spectral range of 400 cm⁻¹ to 4000 cm⁻¹. The spectra run on a single bounce monolithic Germanium ATR crystal have a spectral range of 600 cm⁻¹ to 4000 cm⁻¹. The optical resolution is 2 cm⁻¹.

This library covers a wide range of simple model compounds and increasingly complex compounds.

Considerable effort was put into the selection of compounds for the biofuels community including methyl, ethyl and butyl fatty acid esters, fats, fatty acids, alcohols, aldehydes, alkanes, alkenes, alkynes, carboxylic acids, dicarboxylic acids, ethers, glycols, and ketones.

Approximately 150 flavor and fragrance compounds were included. Many of these (alcohols, ketones) complement the model compounds and biofuel compounds. Other compounds include a variety of biochemicals, peptides, intermediates and small aromatics.

Contains:

Fatty Acid Methyl Esters, saturated	Glycols & Glycol Ethers
Fatty Acid Methyl Esters, unsaturated	Dicarboxylic Acids
Fatty Acid Ethyl Esters	150 Flavor & Fragrance compounds
Fatty Acid Butyl Esters	Alkylbenzenes & Chlorobenzenes
Fatty Acids	Phenols & Chlorophenols
Fats	Phthalate Esters
Alcohols C1 to C22	Amines
Aldehydes	Amino Acids
Normal and Branched Alkanes, C6 to C40	Aromatics C6 to C16
Alkenes, C6 to C22	Naphthenes
Normal, Methyl and Branched Ketones	and much, much more

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

3-Methyl-2-butanone, 563-80-4
3-Methyl-3-pentanol, 77-74-7
3-Methylcyclohexanone, 591-24-2
3-Methylheptane, 589-81-1
3-Methylhexane, 589-34-4
3-Octanone, 106-68-3
3-Pentanol, 584-02-1
3-Pentanone, 96-22-0
4-Aminobenzoic Acid, 150-13-0
4-Aminobenzophenone, 1137-41-3
4-Aminosalicylic acid, 65-49-6
4-Biphenylcarboxaldehyde, 3218-36-8
4-Chlorophenol, 106-48-9
4-Cyanophenol, 767-00-0
4-Fluorophenol, 371-41-5