

## FDM ATR Essential Oils (460 Spectra)

These FTIR spectra were run on a single bounce monolithic Diamond ATR crystal. The spectral range is 400 cm<sup>-1</sup> to 4000 cm<sup>-1</sup> and the optical resolution is 2 cm<sup>-1</sup>.

These ATR spectra are of essential oils and food oils. These spectra are for flavor & fragrance, forensic, and cosmetic chemists and all scientists interested in essential oils and food oils.

The 70 food oils cover commodity oils (soy, corn, olive, canola, sunflower, etc.), flavorings (walnut, pumpkin, avocado, almond, etc.) and oils with a wide variety of other uses.

The essential oils are derived from nuts, seeds, stems, buds, leaves, flowers, bark, and roots. The samples cover traditional spices and herbs (peppermint, basil, thyme, etc.) and other plants known for useful and valuable fragrances (chamomile, cypress, eucalyptus, juniper, sandalwood, etc.) to less common sources of plant oils. Botanical samples were obtained from several geographical regions for many of the materials in the database.

Samples were generated by cold pressing, expeller pressing, CO<sub>2</sub>/sCO<sub>2</sub> extraction, solvent extraction and steam distillation. Details associated with each spectrum include the common name, region, latin species name and the oil extraction method. About 165 compounds have CAS numbers.

### Some Food Oils:

Almond Butter Refined Spain  
Aloe Butter USA  
Apricot Kernel Cp Virgin Morocco  
Apricot Kernel Exp Ref S. Africa  
Argan Virgin Morocco  
Avocado Butter USA  
Avocado Exp Ref France  
Black Currant Seed Australia  
Borage Seed Cp Ref Australia  
Camellia Japan  
Canola USA

### Some Essential Oils:

Agarwood India  
Angelica Root England  
Angelica Root Hungary  
Angelica Root India  
Angelica Seed Hungary  
Basil Camphor Type India  
Basil Grand Vert Madagascar  
Basil Holy ~ Tulsi India  
Basil Sweet Madagascar  
Bay West Indies  
Bergamot Bergaptene Free Italy

Samples from the chemical name index (name, bio. latin name, geog. origin, ext. method, CAS):

Blue Cypress, *Callitris intratropica*, Australia, stm. dist.  
Blue Tansy, *Tanacetum annuum*, Morocco, stm. dist., 8002-66-2  
Borage Seed Ref, *Borago officinalis*, Australia, cold pressed  
Buchu Long Leaf, *Agathosma crenulata*, S. Africa, stm. dist., 90320-23-3  
Buchu Round Leaf, *Agathosma betulina*, S. Africa, stm. dist.  
Buddahwood, *Eremophillia michellii*, Australia, stm. dist.  
Bergamot Natural, *Citrus bergamia*, Italy, stm. dist., 8007-75-8  
Birch Sweet, *Betula lenta*, Canada, stm. dist., 119-36-8  
Cade, *Juniperus oxycedrus*, Spain, stm. dist.  
Cajeput, *Melaleuca minor*, Vietnam, stm. dist., 8008-98-8