

ATR-FTIR Spectra Databases

***Please call (888) 326-8186 (USA only) or email
info@czitek.com for detailed database contents, general
 questions, or a price quotation***

A continuously growing database with thousands ATR-FTIR spectra of a broad range of different materials subdivided into application specific sub-libraries.

- Spectra measured with ZnSe focusing optics cover the spectral range 4000 cm⁻¹ to 650 cm⁻¹
- Spectra measured with KRS-5 focusing optics cover the spectral range 4000 cm⁻¹ to 400 cm⁻¹

NAME & DESCRIPTION	P/N
ATR-FTIR Aldrich Spectra Database	10001
18,513 ATR-FTIR spectra of compounds from the Aldrich collection of the Sigma-Aldrich Company.	
IChem Spectra Database	20001
13,557 ATR-FTIR spectra of compounds from fine chemical manufacturers in Japan.	
Aldrich-IChem Package Spectra Database Volume 1-3	30001
This is the complete collection with 40,810 ATR-FTIR spectra of compounds taken from either the Aldrich or the IChem databases with no duplication.	
<i>The spectra of the following spectra databases are all included in the complete collection 30001:</i>	
Polymers and Polymer Additives Spectra Database	30002-1
5,206 selected ATR-FTIR spectra of polymers, plastics, polymer additives, plasticizers and packing materials.	
Food Additives and Food Packaging Spectra Database	30003
4,239 ATR-FTIR spectra of substances added to food, including substances regulated by the FDA. Also spectra of indirect food additives: substances that come into contact with food such as packaging and processing substances.	
Solvents Spectra Database	30004
1,313 ATR-FTIR spectra of solvents selected from the Aldrich and IChem Databases.	
Organometallics and Inorganics Spectra Database	30005
2,125 ATR-FTIR spectra of Organometallic, Inorganic, Silanes, Boranes and Deuterium compounds selected from the Aldrich and IChem databases.	
Biochemicals Spectra Database	30006
7,529 ATR-FTIR spectra of Biochemicals selected from Aldrich and IChem and including vitamins, resins, starches, glycerides, fatty acids, sugars, carbohydrates, proteins and peptides.	
Aldehydes and Ketones Spectra Database	30007
5,162 ATR-FTIR spectra of Aliphatic and Aromatic Aldehydes and Ketones selected from the Aldrich and IChem databases.	
Alcohols and Phenols Spectra Database	30008
3,700 ATR-FTIR spectra of Alcohols and Phenols selected from the Aldrich and IChem databases.	
Esters and Lactones ,Anhydrides,Carboxylic Acids Spectra Database	30009-1
8,326 ATR-FTIR spectra of esters and lactones selected from the Aldrich and IChem databases.	

Hydrocarbons Spectra Database	30010
1,141 ATR-FTIR spectra of Hydrocarbons and Halogenated Hydrocarbons selected from the Aldrich and IChem databases.	
Flavors, Fragrances, and Cosmetic Ingredients Spectra Database	30011
4,060 ATR-FTIR spectra of flavors, fragrances, and ingredients used in the cosmetic industry.	
Pesticides Spectra Database	30012
3,211 selected ATR-FTIR spectra of pesticides including insecticides, herbicides, algacides and fungicides	
Semiconductor Chemicals Spectra Database	30013
1,379 selected ATR-FTIR spectra a of chemicals used in the Semiconductor industry.	
Forensic Spectra Database	30014
3,770 ATR-FTIR spectra of compounds commonly of interest in the forensic laboratory.	
Dyes, Pigments, and Stains Spectra Database	30015
3,561 ATR-FTIR spectra of selected dyes, pigments, stains and indicators.	
Sulfur and Phosphorus Spectra Database	30016
5,655 ATR-FTIR spectra of sulfur and phosphorus containing compounds selected from the Aldrich and IChem databases.	
Hazardous Chemicals Spectra Database	30017
6,698 ATR-FTIR spectra of chemicals included in the EPA Cameo Database for Chemical Emergencies and Responders and USCG Chris Hazardous Chemicals database.	
Hazardous and Toxic Chemicals Spectra Database	30018
4,022 ATR-FTIR spectra of chemicals included in the EPA Cameo Database for Chemical Emergencies and Responders, the USCG Chris Hazardous Chemicals database, the NIOSH Guide to Chemical Hazards Databases and including chemicals regulated under the Toxic Substances Control Act.	
Pharmaceuticals, Drugs, and Antibiotics Spectra Database	30020
4,796 ATR-FTIR spectra of active substances and aids commonly used in pharmaceutical industry.	
High Production Volume (HPV) Chemicals Spectra Database	30021
2,032 ATR-FTIR spectra of substances included in the <i>HPV Challenge Program Chemical List</i> . The U.S. high production volume (HPV) chemicals are those, which are manufactured in or imported into the United States in amounts equal to or greater than one million pounds p.a.	
Excipients Spectra Database	30022
1,492 ATR-FTIR spectra of pharmaceutical and cosmetic excipients.	
White Powders Spectra Database	30023
714 ATR-FTIR spectra of commercially available white powders and white chemical substances.	
Lubricants Spectra Database	30024
1,826 ATR-FTIR spectra of lubricants and oils, including motor specific oils, such as gear and hydraulic oils, anticorrosion oils, fuels, but also natural oils and essential oils.	
Coatings Spectra Database	30025
2,433ATR-FTIR spectra of common coating materials. Various types of coating including binders, fillers, resins, pigments, dyes. Also typical types of enamels, primers, lacquers, powder coatings, stoving varnishes in fresh and cured form and many other compounds.	

Paints Spectra Database		30026
3,426 ATR-FTIR spectra of art materials used in historical and modern paintings. This databases was developed especially for paintings renovators and conservators, art museums and for forensic purposes. It includes spectra of pigments (historical, inorganic, synthetic), fillers, binders, glues, varnishes, conservation materials, proteins, gums, oils, waxes, balsams, natural and synthetic resins, dispersions, dyes (natural, from plants and animals, synthetic), carbohydrates, and many other related compounds like typical solvents and polymers, cleaning agents, thickeners, retarders, chemicals and more.		
Selected Pure Compounds Spectra Database		30027
5.000 ATR-FTIR spectra of selected pure compounds for educational institutions.		
NEW	EuroPharm Spectra Database	30028
1.368 ATR-FTIR spectra of IR-relevant substances as described in the Reagents section of the European Pharmacopeia (7th edition) of other relevant active substances and aids commonly used in pharmaceutical formulations.		
Explosives Spectra Database		30103
504 ATR-FTIR spectra of explosive materials such as nitrates esters, nitro-aromatics, nitramines, etc. (Spectra are not included in L30001)		

The spectra of the following spectra databases are NOT included in the complete collection 30001:

Takayama Plastic Additives ATR Spectra Database		L30104
632 ATR-FTIR spectra of polymers, plasticizers, antioxidants, stabilizers, UV absorbers, fillers, etc. produced by Japanese chemical manufacturers. (Spectra not included in 30001)		
IR Essential Oils Spectra Database		70133
643 ATR-FTIR spectra of pure essential oils, carrier oils, additives used for dilution, stabilization and further refinement and pure component of essential oils. (Spectra are not included in 30001)		
IR Petrochemicals Spectra Database		70134
1,212 ATR-FTIR spectra of a large range of aliphatic, aromatic and naphthenic organic chemicals and their important derivatives. Further spectra of crude oils from different reservoirs and of typical mixtures of the crude oil refining process are included (Spectra are not included in 30001).		

