

Raman Spectra Databases

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

New Raman spectra are continuously added to this database making it the largest and most advanced Raman collection world-wide. By now the complete Raman collection contains 14,202 searchable Raman spectra which can be used with your Raman benchtop spectrometer or your Raman hand-held instrument.

- Spectral range 4000 cm^{-1} to 200 cm^{-1} (except P/N 60122, 60123, 60124)
- Samples were measured with excitation laser wavelengths of 1064, 785, 532 or 488 nm

NAME & DESCRIPTION	P/N
Raman Spectra Database	60001
Complete collection of 14,202 Raman spectra. (Includes all spectra databases from databases from 60002 until 60033 – please note that only databases 60122, 60123, and 60124 are <u>not</u> included)	
Polymer and Polymer Additives Spectra Database	60002
3,303 Raman spectra of polymers, plastics and polymer additives.	
Food Additives and Food Packaging Spectra Database	60003
2,356 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.	
Solvents Spectra Database	60004
987 Raman spectra of solvents.	
Organometallics & Silicone Spectra Database	60005
730 Raman spectra of organometallics and silicones.	
Biochemicals Spectra Database	60006
4,204 Raman spectra of Biochemicals partly including vitamins, resins, starches, glycerides, fatty acids, sugars, carbohydrates, proteins and peptides.	
Aldehydes and Ketones Spectra Database	60007
1,858 Raman spectra of Aliphatic and Aromatic Aldehydes and Ketones.	
Alcohols and Phenols Spectra Database	60008
1,490 Raman spectra of Alcohols and Phenol.	
Esters, Lactones, and Anhydrides Spectra Database	60009
3,225 Raman spectra of Carboxylic Acids, Esters, Lactones and Anhydrides.	
Hydrocarbons Spectra Database	60010
528 Raman spectra of Hydrocarbons and Halogenated Hydrocarbons.	
Flavors, Fragrances, and Cosmetic Ingredients Spectra Database	60011
2,263 Raman spectra of flavors, fragrances, and ingredients used in the cosmetic industry.	
Pesticides Spectra Database	60012
1,585 Raman spectra of pesticides including insecticides, herbicides, algacides and fungicides	
Semiconductor Chemicals Spectra Database	60013
874 Raman spectra of chemicals used in the Semiconductor industry.	

Forensic Spectra Database	60014
2,025 Raman spectra of compounds commonly of interest in the forensic laboratory.	
Dyes, Pigments, and Stains Spectra Database	60015
1,337 Raman spectra of selected dyes, pigments, stains and indicators.	
Sulfur and Phosphorus Spectra Database	60016
1,837 Raman spectra of sulfur and phosphorus.	
Hazardous Chemicals Spectra Database	60017
4,243 Raman 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	60018
6,417 Raman 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	60020
3,594 Raman spectra of active substances and aids commonly used in pharmaceutical industry.	
High Production Volume (HPV) Chemicals Spectra Database	60021
1,292 Raman 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	60022
785 Raman spectra of pharmaceutical and cosmetic excipients.	
White Powders Spectra Database	60023
297 Raman spectra of commercially available white powders and white chemical substances.	
Coatings Spectra Database	60025
645 Raman 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	60026
1,050 Raman 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.	
Essential Oils Spectra Database	60033
240 Raman spectra of pure essential oils, carrier oils, additives used for dilution, stabilization and further refinement and pure component of essential oils.	

The spectra of the following spectra databases are NOT included in the complete collection 60001:

Minerals Spectra Database	60122
372 Raman spectra of minerals. (Spectra are not included in 60001)	
Inorganic Materials Spectra Database	60123
924 Raman spectra of inorganic materials. (Spectra are not included in 60001)	
Gemstones Spectra Database	60124
500 Raman spectra of gem stones (Spectra are not included in 60001)	

