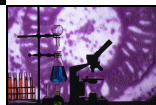


# Basic Monomers and Polymers Vol. 2 (Unmodified)



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## 4225 Basic Monomers & Polymers Vol. 2 (Unmodified) - 850 Spectra

Bio-Rad has compiled a collection of basic monomers and polymers commonly encountered in both industry and academia. This database contains 850 infrared reference spectra for materials identified by chemical name. They have not been modified with any additives, although they may be copolymers or terpolymers of basic monomers and polymers. They were acquired from newer compounds and represent materials of interest which have appeared in the last few years. The compounds were selected to help satisfy a high percentage of analytical applications for this area of technology. Manufacturer source information is presented with each reference spectrum so that the availability of a selected material that matches the measured infrared spectrum can be determined by contacting the specified commercial producer.

Infrared spectroscopy is, perhaps, the most commonly used analytical technique for polymer and plastics analysis. Analytical applications include identification, quality control, deterioration studies, materials selection, plus other applications such as classroom instruction. These applications in nearly all cases require some type of reference spectra with which to substantiate one's analytical suspicions or, to design an analytical approach. The BASIC MONOMERS & POLYMERS VOLUME 2, IR DATABASE is useful in all such applications.

Volume 2 of the Basic Monomers & Polymers Database is a valuable addition to Volume 1 and contains the infrared spectra of basic monomers and polymers which were acquired from newer compounds and represent materials of interest which have appeared in the last few years. Each compound is assigned a chemical classification to aid the user in the identification of characteristic absorption bands representative of that class. Each compound is identified by its chemical name.

The following additional information will also be supplied when available: chemical composition, chemical and physical properties, source of sample, technique and classification.

Molecular structures associated with the database are available for viewing and sub-structure searching where the search software can support it.

The following is a breakdown of the monomer and polymer classes presented in the database.

## Classifications

POLYETHYLENES	9	POLYVINYLIDENE POLYMERS (EXCLUDING NITRILES)	5	UV LIGHT ABSORBERS	7
POLYPROPYLENES	3	MISCELLANEOUS VINYL POLYMERS	25	MISCELLANEOUS POLYMERS	15
POLYBUTENES AND BUTYL RUBBERS	6	HYDROXYETHYLCELLULOSE	3	AROMATIC HYDROCARBONS	13
POLYBUTADIENES	13	CELLULOSE ETHERS	3	HALOGENATED HYDROCARBONS	2
POLYSTYRENES	21	CELLULOSE ESTERS AND MIXED ESTERS	3	COMPOUNDS CONTAINING SILICON	20
OTHER STYRENE COPOLYMERS (EXCLUDING NITRILES)	14	MISCELLANEOUS CARBOHYDRATE DERIVATIVES	15	CYANATES, ISOCYANATES, NITRILES	13
OTHER AROMATIC VINYL HYDROCARBONS	1	ACRYLIC COPOLYMERS (SEE ALSO STYRENE COPOLYMERS)	9	ETHERS	38
FLUOROCARBON RESINS	3	POLYACRYLIC AND POLYMETHACRYLIC ESTERS	46	OXIDES AND PEROXIDES	6
SILICONE POLYMERS	9	POLYACRYLIC AND POLYMETHACRYLIC ACIDS AND SALTS	13	AMINES	35
ACRYLONITRILE-BUTADIENE-STYRENE RESINS	1	POLYESTERS	15	COMPOUNDS CONTAINING HALOGEN	15
STYRENE-ACRYLONITRILE COPOLYMERS	1	POLYCARBONATES	6	COMPOUNDS CONTAINING SULFUR	28
OTHER NITRILE POLYMERS	11	ROSIN AND ROSIN DERIVATIVES	2	COMPOUNDS CONTAINING PHOSPHORUS	4
THIOPLASTS/POLYSULFIDES	1	AMINOPLASTS/POLYAMINES	11	ALCOHOLS AND PHENOLS	23
POLYETHERS	53	POLYAMIDES	25	ALDEHYDES, KETONES AND QUINONES	2
ANHYDRIDE POLYMERS	5	POLYIMIDES	7	CARBOXYLIC ACIDS	25
MODIFIED EPOXY RESINS	1	POLYVINYLPIRROLIDONES	9	ANHYDRIDES	4
VINYL CHLORIDE HOMOPOLYMERS	2	POLYVINYLPIRIDINES	9	ACRYLATES AND METHACRYLATES	169
POLYVINYL ALCOHOLS	12	POLYSULFONES	2	PHTHALATES	10
POLYVINYL ETHERS	15	ION EXCHANGE RESINS	1	ESTERS	35
POLYVINYL ACETALS	1			UREAS, AMIDES, CYANURATES	54
POLYVINYL ESTERS	7			ORGANOMETALLICS (Sn, Zn, Ba, Cd, etc.)	4
POLYVINYL ACETATE COPOLYMERS	10			CARBOXYLIC ACID SALTS	5
				MISCELLANEOUS MONOMERIC COMPOUNDS	2



**Bio-Rad  
Laboratories**

**Informatics Division**  
www.informatics.bio-rad.com

**U.S. Sales**

Phone: +1 888 5 BIO-RAD • E-mail: [informatics.usa@bio-rad.com](mailto:informatics.usa@bio-rad.com)

**Europe**

Phone: +44 20 8328 2555 • Free phone: 00800 78945000 • E-mail: [informatics.europe@bio-rad.com](mailto:informatics.europe@bio-rad.com)

**Japan**

Phone: +81 03 (5811) 6287 • E-mail: [informatics.nbr@jp.bio-rad.com](mailto:informatics.nbr@jp.bio-rad.com)

**Rest of World**

Phone: +1 215 382 7800 • E-mail: [informatics.row@bio-rad.com](mailto:informatics.row@bio-rad.com)