

IR - Sadtler Polymers & Monomers (Basic) 1 - Wiley

Spectra - 1,485

Description

Bio-Rad has compiled a collection of basic monomers and polymers commonly encountered in both industry and academia. Analytical applications include identification, quality control, deterioration studies, materials selection, plus other applications such as classroom instruction.

"Basic" Monomers and Polymers are those which have not been modified with any additives, although they may be copolymers or terpolymers. Each infrared spectrum is assigned a chemical classification to aid the user in identification of characteristic absorption bands representative of that class. This collection includes many classic compounds, which makes it particularly useful as a reference.

Additional Information

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.

Classifications

Polymers

Polyethylenes - 19
Polypropylenes - 16
Polybutenes & Butyl Rubbers - 18
Polybutadienes - 12
Synthetic Polyisoprenes & Natural Rubbers - 4
Aliphatic Hydrocarbon Copolymers - 12
Coumarone-Indene Resins - 3
Polystyrenes - 20
Styrene-Butadiene Copolymers - 14
Other Styrene Copolymers (Excluding Nitriles) - 24
Other Aromatic Vinyl Hydrocarbons - 5
Fluorocarbon Resins - 15
Chlorinated Hydrocarbon Resins - 15
Silicone Polymers - 17
Acrylonitrile-Butadiene-Styrene Resins - 20
Polyurethane And Urethane Prepolymers - 19
Butadiene-Acrylonitrile Copolymers - 13
Styrene-Acrylonitrile Copolymers - 2
Other Nitrile Polymers - 8
Thioplasts/Polysulfides - 11
Polyethers - 45
Anhydride Polymers - 10
Unmodified Epoxy Resins - 10
Modified Epoxy Resins - 37
Vinyl Chloride Homopolymers - 9
Vinyl Chloride Copolymers - 22
Polyvinyl Alcohols - 17
Polyvinyl Ethers - 4

Polyvinyl Acetals - 2
Polyvinyl Esters - 13
Polyvinyl Acetate Copolymers - 21
Polyvinylidene Polymers (Excluding Nitriles) - 4
Miscellaneous Vinyl Polymers - 15
Nitrocellulose - 4
Cellulose Ethers - 10
Carboxymethyl Cellulose & Salts - 2
Cellulose Esters & Mixed Esters - 15
Miscellaneous Carbohydrate Derivatives - 7
Phenolic Resins - 30
Acrylic Copolymers (See Also Styrene Copolymers) - 17
Polyacrylic & Polymethacrylic Esters - 66
Polyacrylic & Polymethacrylic Acids & Salts - 10
Polyesters - 37
Polycarbonates - 6
Alkyds - 20
Rosin & Rosin Derivatives - 11
Aminoplasts/Polyamines - 13
Polyamides - 21
Polyimides - 15
Polyvinylpyrrolidones - 9
Polyvinylpyridines - 11
Polysulfones - 7
Ion Exchange Resins - 66
Polymerized Fats - 1
Uv Light Absorbers - 8
Miscellaneous Polymers - 2

Monomers

Aliphatic Unsaturated Hydrocarbons - 15
Cyclic Unsaturated Hydrocarbons - 6
Aromatic Hydrocarbons - 11
Halogenated Hydrocarbons - 2
Compounds Containing Silicon - 5
Cyanates, Isocyanates, Nitrile - 22
Ethers - 27
Oxides And Peroxides - 35
Amines - 122
Compounds Containing Halogen - 36
Compounds Containing Sulfur - 66
Compounds Containing Phosphorus - 80
Alcohols & Phenols - 65
Aldehydes, Ketones & Quinones - 24
Carboxylic Acids - 25
Anhydrides - 21
Acrylates & Methacrylates - 60
Phthalates - 6
Esters - 64
Carboxylic Acid Chlorides - 3
Ureas, Amides, Cyanurates - 31
Organometallics (Sn, Zn, Ba, Cd, Etc.) - 2
Carboxylic Acid Salts - 13

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