BIO-RAD

Spectral **Databases**

IR - Standards (Selected Subset) - Bio-Rad Sadtler

Product Code - 420200
Spectra - 2,495

Description

This IR spectral database was designed to satisfy the need for a small, convenient collection of infrared spectra of organic compounds when more comprehensive collections are not available. It contains a broad range of spectra of both simple and complex pure compounds.

Additional Information

Each compound is identified by its chemical name. The following additional information will also be supplied when available: technique, melting point, boiling point, molecular weight, molecular formula, and classification. The spectra are arranged in the chemical class order of their respective organic compound and provide the means to identify a compound as a member of specific chemical class.

Classifications

Hydrocarbons - 179

Halogenated Hydrocarbons - 181

Nitrogen containing Compounds - 542

Amines - 205
Pyridines - 32
Quinolines - 13
Miscellaneous Nitrogen - 15
Heteroaromatics Hydrazines - 11
Oximes (-CH=N-OH) - 23
Hydrazones (-CH=N-NH2) - 7
Azines (-CH=N-N=CH-) - 2
Amidines (-N=CH-N) - 8
Hydroxamic Acids - 4
Azo Compounds (-N=N-) - 6
Triazenes (-N=N-NH-) 2
Isocyanates (-N=C=O) - 16
Carbodiimides (-N=C=N-) - 7
Isothiocyanates (-N=C=S) - 10
Nitriles - 49
Cyanamides 4
Thiocyanates - 12
Nitroso Compounds (-N=O) - 4
N-Nitroso Compounds (=N-N=O) - 8
Nitrites (-O-N=O) - 4
Nitro Compounds (-NO2) - 33
N-Nitro-Compounds (=N-NO2) - 1
Nitrates (-O-NO2)

Silicon Containing Compounds (Except SI-O) - 6

Phosphorus Containing Compounds - 5
(Except P-O And P(=O)-O)

Sulfur Containing Compounds - 223

Oxygen Containing Compounds (Except -C(=O)-) - 492

Ethers - 198
Alcohols (R-OH) - 303

Compounds Containing Carbon Oxygen Double Bonds - 57

Ketones (R-C(=O)-R) - 171
Aldehydes (R-C(=O)-H) - 32
Acid Halides (R-C(=O)-X) - 56
Anhydrides (R-C(=O)-O-C(=O)-R) - 26
Amides - 82
Imides (R-C(=O)-NH-C(=O)-R) - 24
HydrazideS (R-C(=O)-NH-NH2) - 9
Ureas (R-NH-C(=O)-NH2) - 20
Hydantoins, Uracils, Barbiturates - 22
Carboxylic Acids (R-C(=O)-OH) - 173
Esters - 263

This collection has been subject to the Sadtler Data Review Protocol™ to provide you with the highest standard in spectral data today. These rigorous qualifying procedures start at data acquisition and continue throughout the database development process.