

Guide to Spectra and Related Information in Eisenhower Library

This is a list of NMR, IR, MS, and UV spectra that are currently located in the Science Reference section or in the stacks. The individual lists are categorized by the type of spectrum and whether the book contains actual spectra, or data, or discussion; for example, "NMR Spectra," "NMR Data," "NMR Text," "IR Spectra," and so forth.

NMR Spectra

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity | CA-Registry (Indexed) |
|----------------|----------------------|-----------------|----------------------------|---|--|-----------------------|
| Spectra | ¹³ C-NMR | 1983 | QC762 .S281 1983 QUARTO | The Sadtler guide to carbon-13 NMR spectra | 20 & 100 MHz | |
| | | 1984 | QD305 .H5 A42 | Selected ¹³ C nuclear magnetic resonance spectral data | 25 MHz | |
| | | Last Date: 2000 | QD305 .H5 A421 | TRC spectral data. ¹³ C nuclear magnetic resonance | 25 - 75 MHz | yes (not indexed) |
| | NMR | 1962 | QD591 .V35 1962 Q | NMR spectra catalog | 60 MHz | |
| | | 1980 | QC762 .A94 1980 QUARTO | A handy and systematic catalog of NMR spectra : instruction through examples | 60 & 270 MHz | |
| | | 1983 | QD96 .N8 P68 1983 QUARTO | The Aldrich library of NMR spectra | 60 MHz | |
| | | 1991 | QC463 .P5 P431 1991 QUARTO | Proton and carbon NMR spectra of polymers | 20-350 MHz | |
| | | 1993 | QC462.85 .A44 1993 QUARTO | The Aldrich library of ¹³ C and ¹ H FT NMR spectra | 75 & 300 MHz | yes (indexed) |
| | | 1972 | QC490 .S55 1972 | The Sadtler guide to NMR spectra | not noted | |
| | | 1978 | QC762 .S3 1978 QUARTO | The Sadtler handbook of proton NMR spectra | not noted | |
| | Proton NMR | Last Date: 1984 | QD305 .H5 A422 | Selected nuclear magnetic resonance spectral data 40 MHz, 60 MHz compilation | 40 & 60 MHz | |
| | | | QD305 .H5 A4221 | Selected nuclear magnetic resonance spectral data 100 MHz compilation | 100 MHz | |
| | | | QD305 .H5 A4223 | Selected nuclear magnetic resonance spectral data 300 MHz compilation | 300 - 500 MHz | |
| | | | QD305 .H5 A423 | Selected nuclear magnetic resonance spectral data 40 MHz, 60 MHz | 40 & 60 MHz | |
| | | | QD305 .H5 A4231 | Selected nuclear magnetic resonance spectral data, 100 MHz | 100 MHz | |
| | | | QD305 .H5 A4233 | Selected nuclear magnetic resonance spectral data 300 MHz | 300 & 360 MHz | |
| | | | Last Date: 1999 | QD305 .H5 A42332 | TRC spectral data. ¹ H nuclear magnetic resonance | 60 - 500 MHz |
| Spectra + Data | ¹³ C-NMR | 1983 | QD406 .C1 1983 QUARTO | ¹³ C nuclear magnetic resonance spectral data of heterocyclic phosphorus compounds | 22.5 MHz | |
| | Proton NMR | 1985 | QC762 .H331 1985 QUARTO | Handbook of proton-NMR spectra and data | 90 MHz | Yes |

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity | CA-Registry (Indexed) |
|-----------------------------|----------------------|------|-------------|-------|-------------|-----------------------|
| | | | | | | (not indexed) |
| Total Sci. Ref. Spectra: 19 | | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity (NMR) | CA-Registry (Indexed) |
|-----------------------------|----------------------|------|-----------------|---|-------------------|-----------------------|
| Spectra | NMR | 1957 | QD95 .H85 1957Q | A catalogue of the nuclear magnetic resonance spectra of hydrogen in hydrocarbons and their derivatives | 30 MHz | |
| Total Non. Circ. Spectra: 1 | | | | | | |

NMR Data**Sci. Ref.**

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity | CA-Registry (Indexed) |
|-------------------------|----------------------|------|-------------------------------|---|--------------|-----------------------|
| Data - no Spectra | ¹³ C-NMR | 1979 | QC462 .C1 B731 1979 QUARTO | Atlas of carbon-13 NMR data | | |
| | | 1985 | QC462 .C1 S3 1985 QUARTO | Carbon-13 NMR collection. 1C-20000C | | |
| | 77Se-NMR | 1996 | QC464 .S45 B76 1996 | Compilation of reported 77Se NMR chemical shifts : up to the year 1994 | | |
| | NMR | 1979 | QC762 .B88 1979 | Handbook of NMR spectral parameters : tabulated high resolution chemical shifts and coupling constants for organic compounds according to spin system | | |
| | Proton NMR | 1979 | QC762 .B5 1967 | Guide to the NMR empirical method; a workbook | | |
| | | 1980 | QC437 .S23 | Proton NMR collection. Cumulative molecular weight index | 100 & 60 MHz | |
| Total Sci. Ref. Data: 6 | | | | | | |

Non-Circ. (none)**NMR Text****Non-Circ.**

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity | CA-Registry (Indexed) |
|-------------------------|----------------------|------|---------------------|------------------|-------------|-----------------------|
| Text | NMR | 1980 | QD96 .N8 G8313 1980 | NMR spectroscopy | | |
| Total Non-Circ. Text: 1 | | | | | | |

NMR Text (cont.)

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | Sensitivity | CA-Registry (Indexed) | |
|--------------------------|-----------------------------|-----------------|--|--|--|-----------------------|--|
| Text | ¹³ C-NMR | 1984 | QD96 .N8 B7313 1984 | ¹³ C NMR spectroscopy : a working manual with exercises | | | |
| | | 1959 | QD591 .P6 1959 | High-resolution nuclear magnetic resonance | | | |
| | | 1969 | QD591 .J3 1969 | Applications of nuclear magnetic resonance spectroscopy in organic chemistry | | | |
| | | 1977 | QD96 .N8 L491 1977 | Analytical applications of NMR | | | |
| | | 1980 | QD96 .N8 B431 1980 | High resolution NMR : theory and chemical applications | | | |
| | | 1981 | QD96 .N8 B751 1981 | Handbook of high resolution multinuclear NMR | | | |
| | | 1983 | QD96 .N8 H371 1983 | Nuclear magnetic resonance spectroscopy : a physicochemical view | | | |
| | | 1984 | QD272 .S6 S6313 1983 | Nuclear magnetic resonance spectroscopy | | | |
| | | | QD96 .N8 D471 1987 QUARTO | Modern NMR techniques for chemistry research | | | |
| | | 1987 | QD96 .N8 E761 1987 | Principles of nuclear magnetic resonance in one and two dimensions | | | |
| | NMR | | | QD96 .N8 S251 1987 | Modern NMR spectroscopy : a guide for chemists | | |
| | | | | QD96 .N8 A271 1988 | Introduction to NMR spectroscopy | | |
| | | 1988 | | QD96 .N8 F741 1988 | A handbook of nuclear magnetic resonance | | |
| | | | | QD96 .N8 M371 1988 | Two-dimensional NMR methods for establishing molecular connectivity : a chemist's guide to experiment selection, performance, and interpretation | | |
| | | | | QD96 .N8 M621 1990 | Modern NMR techniques and their application in chemistry | | |
| | | 1991 | QD96 .N8 M621 1990 | Modern NMR techniques and their application in chemistry | | | |
| | | 1994 | QD96 .N8 G8313 1995 | NMR spectroscopy : basic principles, concepts, and applications in chemistry | | | |
| | | 1996 | QC762 .E53 1996 QUARTO | Encyclopedia of nuclear magnetic resonance | | | |
| | | 1999 | QD272 .S6 C53 1999 QUARTO | High-resolution NMR techniques in organic chemistry | | | |
| | | 2000 | | QD96 .N8 B43 2000 | High resolution NMR : theory and chemical applications | | |
| | RC78.7 .N83 L36 2000 | | Principles of magnetic resonance imaging : a signal processing perspective | | | | |
| | RC78.7 .N83 M48 2000 QUARTO | | Methods in biomedical magnetic resonance imaging and spectroscopy | | | | |
| Text + Data | NMR | 1978 | QD96 .N8 N171 1978 | NMR and the periodic table | | | |
| | | 1984 | QP519.9 .N83 B431 1984 QUARTO | NMR data handbook for biomedical applications | | | |
| | | 1986 | QD96 .N8 R341 1986 | Nuclear magnetic resonance : basic principles | | | |
| | | 1987 | QD96 .N8 M851 1987 | Multinuclear NMR | | | |
| Text + Data + Spectra | Proton NMR | 1988 | QD96 .P7 R531 1988 | Laboratory guide to proton NMR spectroscopy | 90 MHz | | |
| Index | ¹³ C-NMR | Last Date: 1996 | QC462 .C1 S3 QUARTO | Sadtler standard carbon-13 NMR indexes | | | |
| Problems | ¹³ C-NMR | 1979 | QD272 .S6 F831 1979 QUARTO | Carbon-13 NMR based organic spectral problems | | | |
| Theoretical Spectra | NMR | 1962 | QD591 .W5 1962 QUARTO | The interpretation of NMR spectra | | | |
| Total Sci. Ref. Text: 29 | | | | | | | |

IR Spectra

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) | | | |
|-----------------------------|----------------------|------|-----------------------------|---|---|-----------------------------|---|--|
| Spectra | FT-IR | 1987 | QC457 .S771 1987 QUARTO | Sprouse collection of infrared spectra | yes (indexed) | | | |
| | | 1988 | QD96.5 .I5 P34 1988 QUARTO | Merck FT-IR Atlas | yes (indexed) | | | |
| | | 1997 | QD96.5 .I5 P661 1997 QUARTO | The Aldrich library of FT-IR spectra | yes (indexed) | | | |
| | IR | IR | 1968 | QC457 .B49 1968 | Infrared spectra and characteristic frequencies [equivalency symbol] 700-300 cm-p-1-s ; collection of spectra, interpretation, and bibliography | | | |
| | | | 1971 | QC457 .N93 1971 QUARTO | Infrared spectra of inorganic compounds (3800-45cm-p-1-s) | | | |
| | | | 1978 | QC453 .S731 1978 QUARTO | The Sadtler handbook of infrared spectra | | | |
| | | | 1983 | QD305 .H5 A4 | Selected infrared spectral data | | | |
| | | | | QD305 .H5 A401 | Selected infrared spectral data | | | |
| | | | 1987 | QD96.5 .I5 P661 1981 QUARTO | The Aldrich library of infrared spectra | | | |
| | | | 1991 | QD139 .P6 H81 1991 QUARTO | Atlas of polymer and plastics analysis | | | |
| | | | Last Date: 1975 | QD95 .C7 QUARTO | Evaluated infrared reference spectra | | | |
| | | | Last Date: 1999 | QD305 .H5 A402 | TRC spectral data. Infrared | | | |
| | | | IR/Raman | IR/Raman | 1989 | QD272 .S6 S3713 1989 QUARTO | Raman/infrared atlas of organic compounds | |
| | | | | | 1997 | QC457 .N927 1997 QUARTO | The handbook of infrared and Raman spectra of inorganic compounds and organic salts | |
| Spectra + Data | IR | 1949 | QD95 .R18 1949 QUARTO | Infrared determination of organic structures | | | | |
| | | 1964 | QD95 .S97 1964 QUARTO | Interpreted infrared spectra | | | | |
| | | 1986 | QC457 .G831 1986 | Handbook of infrared standards : with spectral maps and transition assignments between 3 and 2600 [mu]m | | | | |
| | | 1993 | QC457 .G8351 1993 | Handbook of infrared standards II : with spectral coverage of 1.4 [mu]m-4 [mu]m and 6.2 [mu]m-7.7 [mu]m | | | | |
| Total Sci. Ref. Spectra: 17 | | | | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|----------------------------|----------------------|------|-----------------------------|--|-----------------------|
| Spectra | FT-IR | 1989 | QD96.5 .I5 P661 1985 QUARTO | The Aldrich library of FT-IR spectra | yes (indexed) |
| | IR | 1972 | QC454 .G3 S3 1972 QUARTO | Gases & vapors; high resolution infrared spectra | |
| | IR/Raman | 1974 | QD272 .S6 S37 1974 QUARTO | Raman/IR Atlas organischer Verbindungen. Raman/IR atlas of organic compounds | |
| Spectra + Data | IR | 1966 | QC457 .R22 1966 | Wavelength standards in the infrared | |
| | | 1977 | QC453 .I5 1977 | Tables of wavenumbers for the calibration of infrared spectrometers | |
| Total Non-Circ. Spectra: 5 | | | | | |

IR Data**Sci. Ref.**

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|-----------------------------|-------------|--------------------|--|------------------------------|
| Data | IR | 1970 | QD95 .S95 1970 | Infrared band handbook | |
| Data - no Spectra | IR | 1963 | QD95 .F6 1963 | Characteristic frequencies of chemical groups in the infra-red | |
| Data - some Spectra | IR | 1977 | QC457 .D641 1977 | Tabulation of infrared spectral data | |
| Total Sci. Ref. Data: 3 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|-----------------------------|-------------|--------------------|---|------------------------------|
| Data + Text | IR/Raman | 2001 | QC457 .S69 2001 | Infrared and Raman characteristic group frequencies : tables and charts | |
| Total Non-Circ. Data: 1 | | | | | |

IR Text

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|--------------------------|----------------------|---------------------|--|--|-----------------------|
| Text | IR | 1969 | QD95 .C8 1969 | An introduction to practical infra-red spectroscopy | |
| | | 1971 | QD476 .S95 1971 QUARTO | A systematic approach to the interpretation of infrared spectra | |
| | | 1972 | QD271 .A9513 1972 | Infrared spectroscopy: applications in organic chemistry | |
| | | 1979 | QD96 .I5 K451 1986 QUARTO | The Sigma library of FT-IR spectra | |
| | | 1979 | QD96 .I5 S581 1979 | Applied infrared spectroscopy : fundamentals, techniques, and analytical problem-solving | |
| | 1994 | QC462.85 .R641 1994 | A guide to the complete interpretation of infrared spectra of organic structures | | |
| | IR/Raman | 1983 | QP519.9 .S6 P371 1983 | Applications of infrared, raman, and resonance raman spectroscopy in biochemistry | |
| | | 1986 | QC457 .N3 1986 | Infrared and Raman spectra of inorganic and coordination compounds | QC457 .N3 1986 |
| 1990 | | QD476 .C6 1990 | Introduction to infrared and Raman spectroscopy | | |
| Text - some Spectra | IR/Raman | Last Date: 1977 | QD96 .I5 I53 1976 | Infrared and Raman spectroscopy | |
| Text + Data | IR | 1972 | QD95 .M151 1972 | Basic infrared spectroscopy | |
| | | 1980 | QC457 .S691 1980 | Infrared characteristic group frequencies | |
| | | 1994 | QC457 .S691 1994 | Infrared characteristic group frequencies : tables and charts | |
| Index | IR | 1959 | QD95 .Z9 H4 1959 QUARTO | Infrared absorption spectra: index for 1945-1957 | |
| | IR | 1964 | QD95 .Z9 H4 1964 | Infrared absorption spectra: index for 1958-1962 | |
| Total Sci. Ref. Text: 15 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|-----------------|---------------------|--|-----------------------|
| Text | FT-IR | 2001 | QD75 .W77 1959 v.35 | Modern fourier transform infrared spectroscopy | |
| | IR | 1976 | QD75 .W77 1959 v.6 | Analytical infrared spectroscopy | |
| | IR/Raman | Last Date: 1985 | QC 457 .A3 | Advances in infrared and Raman spectroscopy | |
| Total Non-Circ. Text: 3 | | | | | |

MS Spectra

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|----------------------------|----------------------|------|--------------------------|---------------------------------|-----------------------|
| Spectra | MS | 1978 | QC462.85 .H4 1978 QUARTO | EPA/NIH mass spectral data base | yes (indexed) |
| Total Sci. Ref. Spectra: 1 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|----------------------------|----------------------|------|---------------------------|--------------------------------|-----------------------|
| Spectra | MS | 1974 | QC454 .M3 S74 1974 QUARTO | Registry of mass spectral data | |
| | | | QC454. M3 W54 1974 QUARTO | Ion mass spectra | |
| Total Non-Circ. Spectra: 2 | | | | | |

MS Data

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|-----------------|-----------------|--|-----------------------|
| Data - no Spectra | MS | 1976 | QD305 .H5 A411m | Selected mass spectral data (matrix) | |
| | | Last Date: 1983 | QD305 .H5 A41m | Selected mass spectral data--matrix | |
| Data - some Spectra | MS | 1976 | QD305 .H5 A411 | Selected mass spectral data (standard) | |
| | | Last Date: 1983 | QD305 .H5 A41 | Selected mass spectral data--standard | |
| Data + Spectra | MS | Last Date: 2000 | QD305 .H5 A412 | TRC spectral data. Mass | yes (not indexed) |
| Total Sci. Ref. Data: 5 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|------|---------------------|---|-----------------------|
| Data - no Spectra | MS | 1973 | QC454. M34 N44 1973 | Metastable precursor ions. A table for use in mass spectrometry | |
| Total Non-Circ. Data: 1 | | | | | |

MS Text

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|------|---------------------|---|-----------------------|
| Text | GC-MS | 2001 | QD272 .C44 H83 2001 | Handbook of GC/MS : fundamentals and applications | |
| | | 1967 | QD95 .B9 1967 | Mass spectrometry of organic compounds | |
| | | 1972 | QD453.2 .P58 v.5 | Mass spectrometry | |
| | MS | 1975 | QD453.2 .P59 v.5 | Mass spectrometry | |
| | | 1979 | QD96 .M3 P721 1979 | Practical mass spectrometry : a contemporary introduction | |
| | | 1985 | QD272 .S6 C431 1985 | Practical organic mass spectrometry | |
| Total Sci. Ref. Text: 6 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|------|-----------------------|---|-----------------------|
| Text | MS | 1981 | QD75 .W77 1959 v.11 | The application of mathematical statistics in analytical chemistry, mass spectrometry, ion selective electrodes | |
| | | 1983 | QD96 .M3 H371 1983 | Chemical ionization mass spectrometry | |
| | | 2000 | QD75 .W77 1959 v.34 | Discrete sample introduction techniques for inductively coupled plasma mass spectrometry | |
| Dictionary | MS | 1966 | QD95 .I57 1966 QUARTO | Multilingual dictionary of important terms in molecular spectroscopy | |
| Index | MS | 1968 | QD95 .S49 1968 | Structure indexed literature of organic mass spectra, 1966 | |
| | | 1987 | QD95 .Z9 M6 | Molécules diatomiques: Bibliographie critique de données spectroscopiques. Diatomic molecules: A critical bibliography of spectroscopic data. | |
| Total Non-Circ. Text: 6 | | | | | |

UV Spectra

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|----------------------------|----------------------|-----------------|----------------------------|---|-----------------------|
| Spectra | UV | 1975 | QD305 .H5 A441 | Selected ultraviolet spectral data | |
| | | 1979 | QC459 .S27 1979 QUARTO | The Sadtler handbook of ultraviolet spectra | |
| | | Last Date: 2000 | QD305 .H5 A442 | TRC spectral data. Ultraviolet | yes (not indexed) |
| | UV-Vis Absorption | Last Date: 1979 | QC437 .A18 | Absorption spectra in the ultraviolet and visible region | |
| Spectra + Data | UV | 1966 | QD95 .U2 1966 QUARTO | UV atlas of organic compounds | |
| | | 1984 | QD305 .H5 A44 | Selected ultraviolet spectral data | |
| | | 1994 | QC462 .H1 R66 1994 QUARTO | Atlas of the vacuum ultraviolet emission spectrum of molecular hydrogen | |
| | UV-Vis | 1992 | QC462.85 .P471 1992 QUARTO | UV-VIS atlas of organic compounds | yes (not indexed) |
| Spectra + Text | UV | 1951 | QD603 .F72 1951 Q | Ultraviolet spectra of aromatic compounds | |
| Total Sci. Ref. Spectra: 9 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-----------------------------|----------------------|------|--------------------------|---|-----------------------|
| Spectra | UV-Vis | 1974 | QC463 .P7 K5 1972 QUARTO | Atlas of protein spectra in the ultraviolet and visible regions | |
| Total Non- Circ. Spectra: 1 | | | | | |

UV Data

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|-----------------|---------------------------|--|-----------------------|
| Data - no Spectra | UV Absorption | Last Date: 1989 | QC437 .O74 | Organic electronic spectral data | |
| | UV-Vis | 1967 | QD291 .H5 1967 QUARTO | Handbook of ultraviolet and visible absorption spectra of organic compounds | |
| | | 1974 | QD272 .S6 P47 1974 QUARTO | Correlation tables for the structural determination of organic compounds by ultraviolet light absorptiometry | |
| Total Sci. Ref. Data: 3 | | | | | |

Non-Circ. (none)

UV Text

Sci. Ref.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|-----------------|-------------------------|--|-----------------------|
| Text + Data | UV | 1964 | QD95 .S41 1964 | Interpretation of the ultraviolet spectra of natural products | |
| Index | | 1979 | QC459 .S251 1980 QUARTO | Ultraviolet collection, 1980 cumulative locator index | |
| | UV | 1980 | QC459 .S251 1980 QUARTO | Ultraviolet collection, 1980 cumulative numerical index, no. 1-29908 | |
| | UV-Vis | Last Date: 1966 | QD95 .Z9 U4 | Ultraviolet and visible absorption spectra; index | |
| Total Sci. Ref. Text: 4 | | | | | |

Non-Circ.

| Contents | Type of Spectroscopy | Date | Call Number | Title | CA-Registry (Indexed) |
|-------------------------|----------------------|------|---------------------|--|-----------------------|
| Text | UV-Vis | 1986 | QD75 .W77 1959 v.19 | Analytical visible and ultraviolet spectrometry | |
| Index | UV-Vis | 1984 | QC463 .P7 K52 1984 | Bibliographic atlas of protein spectra in the ultra-violet and visible regions | |
| Total Non-Circ. Text: 2 | | | | | |

