



# Field (Frank H.) papers

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## Summary Information

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<b>Repository:</b>	Rockefeller Archive Center
<b>Creator:</b>	Rockefeller Institute for Medical Research
<b>Creator - aut:</b>	Field, F. H. (Frank Henry)
<b>Creator:</b>	Rockefeller University
<b>Title:</b>	Frank H. Field papers, Rockefeller University Faculty
<b>ID:</b>	FA160
<b>Date [inclusive]:</b>	1946-2014
<b>Physical Description:</b>	9.27 Cubic Feet
<b>Language of the Material:</b>	English

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## Biographical/Historical note

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Frank H. Field (1922- ), Camille and Henry Dryfus Professor at the Rockefeller University, headed the laboratory of physical chemistry and mass spectrometry. Dr. Field was a leader in the field of mass spectrometry and the study of reactions, energetics, and kinetics of gaseous ions.

Starting in 1972, with funds from the National Institutes of Health, his laboratory provided mass spectrometry services to biomedical workers and institutions in the New York metropolitan area.

In his early work in the petroleum industry, Dr. Field helped advance the analysis of materials of potential economic significance through the use of low-voltage mass spectrometry and chemical ionization mass spectrometry.

Dr. Field received his B.S. (1943), M.S. (1944) and Ph. D. (1948) degrees in chemistry from Duke University. From 1952-1962, he worked with the Humble Oil and Refining Co. and the Esso Research and Development Company. During 1963-1964, Dr. Field was a John Guggenheim Fellow at the

University of Leeds. He received a faculty appointment at the Rockefeller University in 1970 and became Dryfus professor in 1988. Dr. Frank H. Field retired in 1989.

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## Scope and Contents note

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Correspondents include Wilbur Burnaby, Hyp J. Dauben, Jr., Vernon Dibeler, William Doering, A.A. Draeger, Mark G. Inghram, Frederick W. Lampe, W.F. Libby, Einar Lindholm, F.P. Lossing, Fred L. Mohler, R.S. Mullikan, R.I. Reed, and Henry M. Rosenstock.

Subjects include chemical ionization mass spectrometry, gaseous anion chemistry, Humble Oil, reversible reactions of gaseous ions, reaction kinetics, reactions of gaseous ions, and peptide sequencing.

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## Arrangement note

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Arranged in 5 series:

Series 1: Reprints, 1946-1988. Series 2: Manuscripts, 1966-1980. Series 3: Correspondence, 1952-1964. Series 4: Photographs Series 5: Accession 2014:036, 1943-2014.

Within series records are primarily arranged in chronological and in alphabetical order.

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## File Plan note

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Former Classification: I 450 F454

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## Controlled Access Headings

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- Cell and biomolecular sciences
- Chemistry
- Biochemistry
- Mass spectrometry

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## Collection Inventory

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### Reprints, 1946-1988

Physical Description: 1.32 Cubic Feet

#### Arrangement note

Arranged in chronological order.

Title/Description	Instances	
The Vapor Pressures of Some Organic Fluorides, J. of Am. Chem. Soc., 68 (1946) : 2649-2650, 1946 August 10	box 1	folder 1
The Absorption Spectra of Certain Nickel (II) and... J. of Am. Chem. Soc., 72 (1950) : 4232-4235, 1950 February 13	box 1	folder 2

The Ionization Potential of Cyclopropane... J. of Chem. Phys., 18 (1950) : 1122-1123, 1950 May 29	box 1	folder 3
A New Calculation of the Latent Heat of... J. of Chem Phys., 19, no. 6 (1951) : 793, 1951 April 10	box 1	folder 4
The Dissociation of Cyclopropane Under Electron Impact, J. of Chem. Phys., 20, no. 11 (1952) : 1734-1739, 1952 February 21	box 1	folder 5
The Resonance Energies of Certain Organic Free Radicals and Ions, J. of Am. Chem Soc., 75 (1953) : 2819, 1952 April 7	box 1	folder 6
Electron Impact Studies of the Vinyl Ion and Radical, J. of Chem. Phys., 21 (1953) : 1506-1510, 1952 December 11	box 1	folder 7
The Energies of Strained Carbonium Ions, J. of Chem. Phys., 21, no. 3 (1953) : 550-551, 1953 January 5	box 1	folder 8
Some Aspects of the Dissociation of Benzene... J. of Chem. Phys., 21, no. 11 (1953) : 2082-2083, 1953 August 14	box 1	folder 9
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Gas Phase Ionic Reactions, Methane and Ethylene, J. of Am, Chem. Soc., 78 (1956) : 5697, 1956 September 14	box 1	folder 12
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Determination of Unsaturated Hydrocarbons by... Analy. Chem., 28 (1956).-1248-1255, 1956	box 1	folder 14
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Cross Sections for Ionization by Electrons, J. of Am. Chem. Soc., 79 (1957) : 6129-6132, 1957 March 30	box 1	folder 16
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The Decomposition of Neopentane... J. of Am. Chem. Soc., 81 (1959) : 3238-3241, 1958 September 27	box 1	folder 21
The Addition of Ethyl Radicals to Ethylene, Canadian J. of Chem., 37 (1959) : 995-998, 1958 December 29	box 1	folder 22

RGI. VII. Methane-Hydrogen and the... J. of Am. Chem. Soc., 81 (1959) : 3242-3244, 1959 January 6	box 1	folder 23
Reactions of Ions with Molecules in... Tetrahedron 7, nos. 3/4 (1959) : 189-205, 1959 April 8	box 1	folder 24
Russian Paper on CH <sub>5</sub> <sup>+</sup> , 33, no. 3 (1959) : 732-733	box 1	folder 25
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RGI. XI. Ionic Reactions in Krypton... J. of Am. Chem. Soc., 84 (1962) : 1118-1122, 1961 September 8	box 1	folder 28
Rare-Gas Molecule-Ion Formation by... J. of Chem. Phys., 36, no. 12 (1962) : 3332-3344, 1961 October 11	box 1	folder 29
Mass Spectrometer Reveals Inert Gas Ions, Chem. and Eng. News., 39 (1961) : 32-33, 1961 December 25	box 1	folder 30
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A Mass Spect. Study of Homonuclear... J. of Phy. Chem., 67 (1963) : 1542-1548, 1963 February 18	box 1	folder 33
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Thermal Transitions between Collisionally and... J. of Chem. Phys., 64, no. 1 (1976) : 277-281, 1975 August 21	box 2	folder 44
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Peptide Sequencing: The Utility of Chemical... Biomed. Mass Spect. 4, no. 3 (1977) : 159-171, 1976 July 16	box 2	folder 51
Rotational Isomerism in Leucine: Proton... J. of Am. Chem. Soc., 99 (1977) : 2953-2957, 1976 August 16	box 2	folder 52
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Drug Interactions with Methadone, Annals of the New York Academy of Sciences, 281 (1976) : 350-370, 1976 December 10	box 2	folder 54
Thermal and Nonthermal Decompositions... J. of Am. Chem Soc., 99 (1977) : 5576-5583, 1977 January 20	box 3	folder 1
Reference Lineshape Adjusted Difference NMR... J. of Magnetic Resonance, 28 (1977) : 93-104, 1977 February 8	box 3	folder 2
Correlation between Exothermicity Rate and... J. of Am. Chem. Soc., 100 (1978) : 1356-1359, 1977 March 22	box 3	folder 3
Hepatic Extraction of Long-and Short-Acting... Gastroenterology, 75 (1978) : 88-94, 1977 April 11	box 3	folder 4
Gaseous Anion Chem. Formation and... J. of Am. Chem. Soc., 99, no. 10 (1977) : 6471-6483, 1977 April 19	box 3	folder 5
Bonding Energies in Assoc. Ions of... J. of Am. Chem. Soc., 100 (1978). 5466-5471, 1978 January 10	box 3	folder 6
[OH] - Negative CIMS... Biomed. Mass Spect., 5, no. 10 (1978) : 572-575, 1978 January 24	box 3	folder 7
Ion Thermochemistry of Low-Volatility Compounds... J. of Am. Chem. Soc., 101 (1979) : 686-689, 1978 July 18	box 3	folder 8
Hydroxyl Ion Negative CIMS... Anal. Chem., 51 (1979) : 272-178, 1978 August 4	box 3	folder 9
Isotope Exchange Reactions of OH- or OD- with... J. of Am. Chem. Soc., 102 (1980) : 4672-4676, 1979 November 30	box 3	folder 10
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Effects of Liver Disease on Urinary Excretion... Biomed. Mass Spect., 7, no. 9 (1980) : 385-395, 1980 March 17	box 3	folder 12
CIMS of L-Methionine and... Biomed. Mass Spect., 8, no. 3 (1981) : 95-98, 1980 March 27	box 3	folder 13
Internal and External Solvation of Polyfunctional... J. of Am. Chem. Soc., 102 (1980) : 6393-6399, 1980 April 18	box 3	folder 14
Gaseous Anion Chemistry. Hydrogen-Deuterium... J. of Am. Chem. Soc., 45 (1980) : 3483-3492, 1980 May 6	box 3	folder 15
High-Performance Digital Timing System, Anal. Chem., 52 (1980) : 1923-1928, 1980 May 27	box 3	folder 16

Analysis of Lithium Using a... Biomed. Mass Spect., 8, no. 1 (1981) : 19-24, 1980 July 29	box 3	folder 17
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Short Communication. Structures of Metabolites... Drug Metabolism and Disposition, 12, no. 6 (1984) : 784-786, 1983 October 19	box 3	folder 29
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### Arrangement note

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Analysis of Lithium Using a Commercial... J.R. Lloyd and F.H. Field, 1978-1980	box 4	folder 2

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The Application of Transition State Theory to Ion... H. Gershinowitz, 1975	box 4	folder 4
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## Correspondence, 1952-1964

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Academic Press Inc., 1955-1957		
Adamson, Arthur W., 1952		
Ahrendt, M.E., 1962		
American Institute of Physics, 1952		
Anderson, J.A., Jr., 1954		
Anderson, Robbin C., 1953		
Applied Physics Corporation, 1957		
Applied Research Laboratories, 1953		
Atkins, Marc, 1964		
Ausloos, Peter, 1962 1964		
Correspondence Ba-Be	box 16	folder 2
Baeder, D.L., 1962 1964		
Balaban, Al, 1958		
Baldock, Russell, 1958		
Barnes, Earle B., 1958		
Barton, Henry A., 1956		
Baschkin, B.B., 1962		
Bauer, S.H., 1961		
Beckey, H.D., 1963-1964		
Bendix Aviation Corp., 1955		
Beynon, J.H., 1961 1964		
Correspondence Bi-Bu	box 16	folder 3
Bicknell, Robert, 1960		
Boeder, D., 1964		
Boren, Hoolis G., 1960		
Boudart, M., 1960		
Brandt, Preston L., 1958		
Brown, A.E., 1964		

Brown, W.J., 1953		
Buchta, J.W., 1956		
Burnaby, Wilbur, 1963-1964		
Burton, Milton, 1963		
Correspondence Ca-Cu	box 16	folder 4
Cadle, Richard D., 1960		
Calcotte, H.F., 1963		
Cameron, Thomas B., 1952		
Carlson, T.A., 1962		
Carman, Max F., Jr., 1962		
Caves, Tom, undated		
Ceskoslovenska Akademie, 1959		
Chalmers, J., 1954		
Cloyd, W. P., 1953		
Collin, Jacques E., 1963		
Cook, C.J., 1963		
Cramer, W.H., 1960		
Currie, Amy S., 1964		
Curtiss-Wright Corp., 1957		
Cuthbert, J., 1963		
Correspondence Da-Di	box 16	folder 5
Dahler, John S., 1961		
Dainton, Fred, 1964		
Dauben, Hyp J., Jr., 1957		
Davis, Clyde L., 1954		
Davis, Jeff C., Jr., 1960		
Detrick, S.R., 1952		
Dibeler, Vernon, 1952 1955-1961		
Correspondence Do-Du	box 16	folder 6
Dockendorff, R.L., 1959		
Doering, William, 1957-1958		
D'Or, L., 1963		

Dorfman, Leon M., 1960 1962		
Draeger, A.A., 1954-1957 1959		
Draper, L., 1962		
Drowart, J., 1962		
Duncan, A.B.F., 1963		
Correspondence Ea-Ev	box 16	folder 7
Eager, R.L., 1964		
Ebsworth, E.A.V., 1963		
Edwards, D.V., 1956-1957		
Elliott, R.M., 1962		
Emanuel, W.L., 1953 1956 1962		
Evans, Hugh E., 1962 1964		
Correspondence Fa-Fo	box 16	folder 8
Fansteel Metallurgical Corp., 1955		
Faraday Society, 1964		
Ferguson, H.W., 1955		
Filbert, Bryson M., 1952		
Fincke, M.F., 1958		
Fineman, Morton A., 1962		
Forster, E.D., 1962		
Fox, Russell E., 1958 1961-1962		
Correspondence Franklin, Joseph E.	box 16	folder 9
Franklin, Joseph E., 1953-1958 1960-1964		
Correspondence Fra-Fu	box 16	folder 10
Franklin, W.B., 1952		
Freiser, Henry, 1959-1960		
Friedel, R.A., 1958		
Frost, David, 1960		
Futrell, Jean HY, 1960 1964		
Correspondence Ga-Gr	box 16	folder 11
Gates, Marshall D., Jr., 1963		
Gatlin, Harold, 1952-1953		

Geballe, Ronald, 1959		
Geraghty, Frank, 1956		
Gieger, Geraldine, 1955		
Gille, K.L., 1956-1957		
Gillis, Albert, 1953		
Gioumousis, George, 1962		
Gleason, William S., 1962		
Glick, Richard E., 1959 1961-1962		
Glockler, George, 1955-1956		
Godfrey, Fahy, 1957		
Goldfinger, P., 1962		
Goldhaber, Maurice, 1962		
Goose Creek School District, 1959-1960		
Gray, John K., 1963		
Granville-Phillips Company, 1958		
Greek, Bruce F., 1961		
Green, J.H., 1960-1961		
Grunwald, Ernest, 1958		
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Hackerman, Norman, 1957		
Hainge, R.F., 1955		
Hallett, L.T., 1957-1959		
Hamill, William H., 1962		
Marker, H.J., 1958		
Hart, J.L., 1953		
Hastings, Samuel H., 1956		
Hatfield, T.N., 1962		
Hellund, Emil J., 1963		
Henchman, M.J., 1962		
Henderson, Watson, 1963		
Heinglein, A., 1963-1964		
Herman, Zdenek, 1964		

Hertzberg, M., 1961		
Hickam, W.M., 1953		
Hippie, John A., 1953-1956		
Hirschfelder, Joseph O., 1958		
Hoenig, Richard E., 1953 1960		
Holcomb, H.A., 1960		
Humble Oil, 1964		
Humble Recreation Club, 1957		
Hutchison, Clyde A., 1954-1955		
Correspondence Ing-Int	box 16	folder 13
Inghram, Mark G., 1956-1957		
Institute of Petroleum, 1956		
Interscience Publishers, Inc., 1955		
Isbell, A.F., 1960-1961		
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Johnson, G.R.A., 1961	box 16	folder 14
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Kandel, Richard J., 1954	box 16	folder 15
Kant, F.H., 1956	box 16	folder 15
Kebarle, Paul, 1961 1964	box 16	folder 15
Kent, Arthur B., undated	box 16	folder 15
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Kiser, Robert W., 1961	box 16	folder 15
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Lampe, Frederick W., 1956-1958 1963-1964		
Le Goff, P., 1964		
Libby, W.F., 1960-1963		
Lindholm, Einar, 1958-1959		
Linnett, J.W., 1961		
Lias, Allen R., 1956		
Liu, David F., 1958		
London, F., 1953		
Long, F.A., 1960		
Lossing, F.P., 1958-1959 1961-1962		
Lovli, J.W., 1954		
Lucchesi, P.J., 1963		
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Maccoll, Allan, 1964		
McCulloch, T.B., 1956		
McDowell, C.A., 1953 1956		
McFadden, W.H., 1960 1962		
MacGarvey, Charles J., 1963		
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McMillen, J. Howard, 1956		
Haddock, J. Kenneth, 1955		
Magat, M., 1956		
Magee, Ellington M., 1961		
Manes, Milton, 1961		
Mason, H.J., 1953		
Mathis, J.F., 1961 1963		
Matsen, F.A., 1963		
Meier, H.H., 1952		
Meisels, Gerald G., 1961		
Melton, Charles E., 1962		



Meyerson, Seymour, 1963		
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Milligan, W.O., 1962		
Milton, E.A., 1953		
Mitchell, James T., 1962		
Mode, V. Allen, 1962		
Mohler, Fred L., 1954-1956		
Moore, Walter J., 1956		
Morgan, L.O., 1960		
Moritz, Clement, 1959		
Morrison, J.A., 1963		
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Mulliken, R.S., 1953-1954 1957		
Murphy, Walter J., 1956		
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Nakajima, Akio, 1960		
Nance, Billy W., 1960		
National Science Foundation, 1956 1962		
Noyes, W. Albert, 1956 1958-1959		
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Padgett, A.R., 1957		
Page, F.M., 1962-1964		
Paulson, J.F., 1961		
Peterson, E.H., 1963		
Plesch, P.H., 1955		
Polymer Corporation Ltd., 1953		
Pottie, R.F., 1960		
Price, W.C., 1956		
Ramsey, Hal H., 1960-1961		

Rase, Howard F., 1962		
Redhead, P.A., 1953		
Reed, R.I., 1962-1963, undated		
Reese, Kenneth M., 1957		
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Rhodes, William, 1961-1962		
Rickard, James A., 1953		
Ridd, J. H., 1964		
Roberts, John D., 1960		
Roberts, Ralph, 1963		
Roberts, Royston M., 1954		
Robinson, Charles F., 1956		
Rogers, Emery H., 1953		
Rony, Peter R., 1962		
Rosenstock, Henry H., 1958 1961 1963-1964		
Ross, Gordon N., 1964		
Russell, Kenneth, 1964		
Correspondence Sa-Se	box 17	folder 2
Saylor, John H., 1956-1957 1959		
Scheraga, Harold A., 1953 1959-1960 1962		
Schiller, James C., 1953 1956-1957		
Schulz, G.J., 1960		
Science, 1964		
Scott, John E., Jr., 1963		
Seyfried, W.D., 1953		
Correspondence Sh-Sy	box 17	folder 3
Shriner, Ralph L., 1955		
Shull, Harrison, 1962		
Slack, Wayne A., 1964		
Smith, Noyes D., Jr., 1958		
Speairs, Mitchell, 1955		

Spokes, G. Neil, 1961		
Steiner, Bruce, 1960		
Stescie, E.W.R., 1960		
Stevenson, D.P., 1956-1957		
Stout, J.W., 1960-1963		
Sugden, T.M., 1962		
Svec, Harry J., 1958		
Sydnor, Charles S., 1952		
Sylvania Electric Products, Inc., 1955		
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Tal'Rose, V.L., 1962		
Taubert, Rolf, 1960 1963-1964		
Taylor, Archibald L., Jr., 1952		
Texas Academy of Science, undated		
Thomas, L.I., 1963		
Thomas, W.A., 1953		
Thyme, John, 1964		
Tickner, A.W., 1961-1962		
Tompkins, F.C., 1956 1962		
Tribble, Robert, 1860		
Tuffly, B.L., 1958		
Tunncliffe, Lizabeth G., 1955		
Turner, Richard B., 1957		
University of New South Wales, 1962		
Von Koch, Helge, 1961		
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Waddeil, M.T., 1955 1958-1969		
Wahrhaftig, Austin L., 1963-1964		
Waldron, J.D., 1958		
Washburn, H.W., 1956 1959		
Watanabe, Kenichi, 1954-1955 1960		
Weissler, G.L., 1959		

Wentworth, W.E., 1962		
Westinghouse Electric Corporation, 1955-1956		
Wexler, Sol, 1959-1962		
Wiegand, James H., 1954		
Wilber, Steward A., 1962		
Wilde, H. Dayton, 1957		
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## Frank H. Field Photographs - Prints and negatives

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#### **Custodial History**

Added to the collection, March 2006.

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Duke University Bachelor of Science Degree, 1943	box 18
Duke University Doctor of Philosophy Degree, 1948	box 18
Electron Impact Phenomena and the Properties of Gaseous Ions, 1957	box 19
Electron Impact Phenomena and the Properties of Gaseous Ions Revised Edition, 1970	box 19
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Ionization Potentials, Appearance Potentials, and Heats of Formation of Gaseous Positive Ions, 1969	box 19
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