

NAMED REAGENTS, CATALYSTS, AND COMPOUNDS (G – Z)

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Harry Drake Gibbs

10 May 1872 - 28 December 1934

American, b. Cincinnati, Ohio, USA

Gibbs reagent (2,6-dichloroquinonechloroimide)

Gibbs, H.D. *Chem. Rev.* **1927**, 3, 291

Gibbs, H.D. *J. Biol. Chem.* **1927**, 71, 445

Gibbs, H.D. *J. Biol. Chem.* **1927**, 72, 649

Gibbs, H.D. *J. Phys. Chem.* **1927**, 31, 1053

Biographical references:

Pogg. 6(2), 883

Cattell, J.M.; Cattell, J. *American Men of Science*, 4th ed., The Science Press: New York, 1927

Henry Gilman

19 May 1893 - 7 November 1986

American, b. Boston, Massachusetts

Gilman reagents

Gilman, H.; Straley, J.M. *Rec. Trav. Chim. Pays-Bas* **1936**, 55, 821

Biographical references:

Eaborn, C. *Biog. Mem. Natl. Acad. Sci. USA* **1996**, 70, 83

André Girard

1901 - 1968

French, b. ?

Girard reagent P

Girard reagent T

Girard, A., *Org. Synth. Coll. Vol. II* **1943**, 2, 85

Biographical References:

Personal communication, Dr. Otto-Albrecht Neumüller, August 2002

Johann Rudolf Glauber

1604 - 16 March 1670

German, b. Karlstadt, Germany

Glauber's salt (sodium sulphate) (1658)

Glauber, J.R. *De natura salium*, 1658

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag: Frankfurt, 1989

Sharp, G. *Pharm. J. Pharmacist* **1911**, 86[4], 33

Greenaway, F. *Endeavour* **1970**, 29, 67

Ahonen, K. in Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1980, Vol. 5, 419

Partington, J.R., *A History of Chemistry*, Vol. II, Macmillan and Co., Ltd.: London, 1961, p. 341-361

Leopold Gmelin

2 August 1788 - 13 April 1853

German, b. Göttingen, Germany

Gmelin's salt (potassium ferricyanide) (1822)

Gmelin, L. *Schweigger's J.* **1822**, 34, ?

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag: Frankfurt, 1989

Farber, Eduard (ed.), *Great Chemists*, Interscience Publishers: New York, 1961

Maurer, James F. (ed.) *Concise Dictionary of Scientific Biography*, Charles Scribner's Sons: New York, 1981

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 180

Heinrich Gold

4 January 1912 –

German, b. Marburg/Lahn, Germany

Gold's reagent (3-(dimethylamino)-2-azaprop-2-en-1-ylidene dimethylammonium chloride)

Gold, H., *Angew. Chem.* **1960**, 72, 956

Biographical References:

Die Deutsche Bibliothek, Deutsche Bücherei Leipzig, Deutscher Platz 1, 04103 Leipzig, GERMANY, January 2001

Moses Gomberg

8 February 1866 - 12 February 1947

Ukrainian-American, b. Elisabetgrad, Ukraine, now Kirovograd, Ukraine)

Gomberg radical (triphenylmethyl radical)

Gomberg, M., *J. Am. Chem. Soc.* **1900**, 22, 757

Biographical References:

Bailar, J.C., Jr., *Biog. Memoirs Natl. Acad. Sci.* **1970**, 41, 141

Farber, Eduard (ed.), *Great Chemists*, Interscience Publishers: New York, 1961

Norman Everett Good

20 May 1917 -

Canadian-American, b. Brantford, Ontario

Good buffer solutions

Good, N.E.; Winget, G.D.; Winter, W.; Connolly, T.N.; Izawa, S.; Singh, R.M. *Biochemistry*, **1966**, 5, 467

Good, N.E.; Izawa, S. *Methods Enzym.* **1972**, 24B, 53

Ferguson, W.J.; Braunschweiger, K.I.; Braunschweiger, W.R.; Smith, J.R.; McCormick, J.J.; Wasmann, C.C.; Jarvis, N.P.; Bell, D.H.; Good, N.E. *Anal. Biochem.* **1980**, 104, 300

Biographical references:

American Men of Science, Physical and Biological Sciences, 11th ed., R.R. Bowker: Providence, N.J., 1967

Victor François Auguste Grignard



6 May 1871 - 13 December 1935
French, b. Cherbourg, France

Nobel Prize Chemistry 1912

Grigard reagent (aryl or alkyl magnesium halides)
Grigard, V., *Compt. Rend.* **1900**, 130, 1322

Biographical References:

Gibson, C.S.; Pope, W.J., *J. Chem. Soc.* **1937**, 171
Farber, Eduard (ed.), *Great Chemists*, Interscience Publishers: New York, 1961
Locquin, R., *Chem. Ber.* **1936**, 69A, 69
Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., *Biographical Encyclopedia of Scientists*, Institute of Physics Publishing: Bristol, UK, 1994
Nye, M.J. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*, American Chemical Society: Washington, DC, 1993, p. 83
Abbott, David (ed.), *The Biographical Dictionary of Scientists: Chemists*, Peter Bedrick Books: New York, 1983
Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 858

Robert Howard Grubbs

27 February 1942 -
American, b. Calvert City, Kentucky, USA

Grubbs ruthenium catalyst
(dichloro(phenylmethylene)bis(tricyclohexylphosphine) ruthenium

Maynard, H.D.; Grubbs, R.H. *Tetrahedron Lett.* **1999**, 40, 4137
Weck, M.; Mohr, B.; Sauvage, J.P.; Grubbs, R.H. *J. Org. Chem.* **1999**, 64, 5463
Morgan, J.P.; Grubbs, R.H. *Org. Lett.* **2000**, 2, 3153
Lee, C.W.; Grubbs, R.H. *Org. Lett.* **2000**, 2, 2145

Seiders, T.J.; Ward, D.W.; Grubbs, R.H. *Org. Lett.* **2001**, 3, 3225

Sanford, M.S.; Ulman, M.; Grubbs, R.H. *J. Am. Chem. Soc.* **2001**, 123, 749

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

C. Th. L. Hagemann

Hagemann's ester

(4-carboethoxy-3-methyl-2-cyclohexene-1-one)

Hagemann, C.T.L. *Chem. Ber.* **1893**, 26, 876

Biographical references:

Arthur Harden

12 October 1865 - 17 June 1940

British, b. Manchester, England

Chemistry Nobel Prize 1929

Harden and Young's ester (fructose-1,6-diphosphate)

Harden, A.; Young, W.J. *Proc. Roy. Soc. London* **1907**, 77B, 405

Harden, A.; Young, W.J. *Proc. Roy. Soc. London* **1911**, 82B, 321

Biographical references:

Hopkins, F.G.; Martin, C.J. *Obit. Not. Fellows Roy. Soc.* **1942**, 4, 3

Smedley-Maclean, I. *Biochem. J.* **1941**, 35, 1071

Goodwin, T.W. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*, American Chemical Society: Washington, DC, 1993, p. 181

Ihde, A. in Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1972, Vol. 6, 110

James Briggs Hendrickson

3 January 1928 -

American, b. Toledo, Ohio

Hendrickson's reagent

μ -oxohexaphenyldiphosphorus salt with trifluoromethanesulfonic acid

Hendrickson, J.B.; Hussoin, M.D. *J. Org. Chem.* **1987**, 52, 4137

Hendrickson, J.B.; Hussoin, M.D. *J. Org. Chem.* **1989**, 54, 1144

Hendrickson, J.B.; Hussoin, M.D. *Synlett* **1990**, 423

Biographical references:

R.R. Bowker's *American Men & Women of Science 2000- 2001* 21st ed., R.R. Bowker:
New Providence, New Jersey, 2001

Wasserman, H.H.; Berson, J.A.; Hendrickson, J.B.; Kemp, D.S.; Wenkert, E.
Tetrahedron **1999**, 55, 10253

Kurt Fritz Heyns

13 December 1908 -

German, b. Hamburg, Germany

Heyns catalyst (10% platinum - charcoal)

Heyns, K., *Ann. Chem.* **1947**, 558, 177

Biographical References:

World Biographical Index, K.G. Saur Publishing,

http://www.biblio.tu-bs.de/acwww25u/wbi_en/

Pogg. **1958**, 7A(2), 484

Die Deutsche Bibliothek, Deutsche Bücherei Leipzig, Deutscher Platz 1, 04103 Leipzig,
GERMANY, January 2001

Peter Hilbert

Seyferth-Hilbert reagent (dimethyl diazomethylphosphonate)

Seyferth, D.; Hilbert, P.; Marmor, R.S., *J. Am. Chem. Soc.* **1967**, 89, 4811

Seyferth, D.; Marmor, R.S.; Hilbert, P., *J. Org. Chem.* **1971**, 36, 1379

Marmor, R.S.; Seyferth, D.; *J. Org. Chem.* **1971**, 36, 128

Biographical references:

Siegfried Helmut Hünig

3 April 1921 -

German, b. Radebeul, Dresden, Germany

Hünig's base (diisopropylethylamine)

Hünig, S.; Kiessel, M., *Chem. Ber.* **1958**, 91, 380

Biographical References:

Pogg. **1958**, 7A(2), 568

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Personal communication, Prof. Dr. Christian Reichardt, October 2000

Eric Niels Jacobsen

American, b. ?

Jacobsen's catalyst (salen-Mn(III))

Jacobsen, E.N.; Zhang, W.; Muci, A.R.; Ecker, J.R.; Deng, L. *J. Am. Chem. Soc.* **1991**, 113, 7063

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

Max Jaffé

25 July 1841 - 26 October 1911

Czech, b. Grünberg, Silesia

Jaffé's base

1-(4,5-dihydro-1H-imidazol-2-yl)-2-imidazolidinethione

Jaffé, M.; Kühn, B. *Chem. Ber.* **1894**, 27, 1663

Biographical references:

Pogg. 4, 692

Ellinger, A. *Chem. Ber.* **1913**, 46, 831

Cohn, R. *Münch. Med. Wchschr.* **1912**, 59, 92

Cohnheim, O. *Z. Physiol. Chem.* **1912**, 77, 1

Jaroslav V. Janovsky

4 May 1850 - 17 June 1907

Czech, b. Prague, Czech Republic

Janovsky's complex

Janovsky, J.V.; Erb, L. *Chem. Ber.* **1886**, 19, 2155

Biographical references:

Pogg. 4, 698; 5, 584

William Summer Johnson

24 February 1914 - 19 August 1995

American, b. New Rochelle, New York, USA

Lemieux-Johnson reagent (sodium periodate - osmium tetroxide)

Pappo, R.; Allen, D.S., Jr.; Lemieux, R.U.; Johnson, W.S., *J. Org. Chem.* **1956**, 21, 478

Biographical References:

Johnson, W.S., *A Fifty-Year Love Affair with Organic Chemistry*, ACS: Washington, 1998

Sir Ewart Ray Herbert Jones

16 March 1911 - 7 May 2002

British, b. Wrexham, Wales

Jones reagent (chromium trioxide - sulfuric acid)

Bowden, K.; Heilbron, I.M.; Jones, E.R.H.; Weedon, B.C.L., *J. Chem. Soc.* **1946**, 39

Biographical References:

Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., *Biographical Encyclopedia of Scientists*, Institute of Physics Publishing: Bristol, UK, 1994

Anon., *Chem. Eng. News.* **1962**, 40(13), 93

Jones, J.H. *Biog. Memoirs Fellows Roy. Soc.* **2003**, 49, 263

Wilhelm Ferdinand Kalle

19 February 1870 – 7 September 1954

German, b. Biebrich, Wiesbaden, Germany

Kalle's acid (1-amino-2,7-naphthalenedisulfonic acid)

Kalle & Co. DE 62,634 *Fortschr. Teerfarbenfabr. Verw. Industriezweige* 3, 431

Biographical references:

Mauss, W. *Angew. Chem.* **1950**, 62, 132

Anon. *Chem. Ztg.* **1954**, 78, 662

Pogg. 7A(2), 683

Bruce D. Karstedt

Karstedt catalyst

Karstedt, B.D., General Electric Co., Fr. 1,548,775 (Dec. 6, 1968)

Karstedt, B.D., General Electric Co., Ger. Offen. 1,941,411 (Dec. 23, 1970)

Karstedt, B.D., General Electric Co., Ger. Offen. 2,307,085 (Aug. 23, 1973)

see *Chem. Abs.* 71:P91641q; 74: P100519x; 80: P16134j

Biographical references:

Friedrich August Kekulé von Stradonitz



7 September 1829 - 13 July 1896

German, b. Darmstadt, Germany

Kekulé structures

Kekule, F.A., *Ann. Chem.* **1858**, 106, 129

Kekule, F.A., *Ann. Chem.* **1865**, 137, 129

Kekule, F.A., *Bull. Soc. Chim. Fr.* **1865**, 3[2], 93

Kekule, F.A., *Ber.* **1890**, 23, 1306

Biographical References:

Farber, Eduard (ed.), *Great Chemists*, Interscience Publishers: New York, 1961

Bernthsen, A., *Angew. Chem.* **1929**, 42, 891

Wieland, H., *Angew. Chem.* **1929**, 42, 901

Weinberg, A. von, *Angew. Chem.* **1930**, 43, 167

Bernthsen, A., *Angew. Chem.* **1930**, 43, 719

Hafner, K., *Angew. Chem.* **1979**, 91, 685

Abbott, David (ed.), *The Biographical Dictionary of Scientists: Chemists*, Peter Bedrick Books: New York, 1983

Daniel Schaeffer Kemp

20 October 1936 -

American, b. Portland, Oregon, USA

Kemp's triacid (cyclohexyl triacid)

Kemp, D.S.; Petrakis, K.S., *J. Org. Chem.* **1981**, 46, 5140

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

Joseph Kenyon

8 April 1885 - 12 November 1961

British, b. Blackburn, Lancashire, England

Banfield-Kenyon radical

Banfield, F.H.; Kenyon, J. *J. Chem. Soc.* **1926**, 1612

Biographical references:

Turner, E.E. *Biog. Memoirs Fellows Roy. Soc.* **1962**, 8, 49

Heinrich Kiliani

30 October 1855 - 25 February 1945

German, b. Würzburg, Germany

Kiliani reagent (chromic acid - sulfuric acid - water)

Kiliani, H.; Merk, B., *Chem. Ber.* **1901**, 34, 3562

Biographical References:

Kiliani, H., *J. Chem. Educ.* **1932**, 9, 1908

Huckel, W., *Chem. Ber.* **1949**, 82, I

Choung Un Kim

Corey-Kim reagent

see Elias James Corey

Biographical References:

J.J. Koch

German, b. ?

Koch acid

Biographical references:

Charles Frederick Koelsch

31 January 1907 - 24 December 1999

American, b. Boise, Idaho, USA

Koelsch radical

Koelsch, C.F., *J. Am. Chem. Soc.* **1932**, 54, 4744

Koelsch, C.F., *J. Am. Chem. Soc.* **1957**, 79, 4439

Biographical References:

American Men of Science, Physical and Biological Sciences, 11th ed., R.R. Bowker: Providence, N.J., 1967

Anon., *Chem. Eng. News* **2000**, 78(23), 78

Elmer Peter Kohler

6 November 1865 – 24 May 1938

American, b. Egypt, Pennsylvania, USA

Kohler's ketone (mesityl-1,1-diphenylethyl ketone)

Kohler, E.P.; Tishler, M.; Potter, H., *J. Am. Chem. Soc.* **1935**, 57, 2517

Biographical references:

Conant, J.B., *Biog. Mem. Natl. Acad. Sci.* **1951**, 27, 265

Walter Georg König (Koenig)

26 September 1878 - 2 February 1964

German, b. Annaberg, Germany

König's salt

König, W., *J. Prakt. Chem. N.F.* **1904**, 69, 105

König, W., *J. Prakt. Chem. N.F.* **1904**, 70, 19

Biographical references:

Pogg. **1926**, 5, 651; **1937**, 6(2), 1353; **1958**, 7A(2), 838

Daehne, S. *Wiss. Z. Tech. Univ. Dresden* **1971**, 20, 671

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag: Frankfurt, 1989

Gerald Franklin Koser

1942 –

American, b. ?

Koser's reagent (hydroxy(tosyloxy)iodobenzene)

Koser, G.F.; Relenyi, A.G.; Kalosa, A.N.; Rebrovic, L.; Wettach, R.H.,
J. Org. Chem. **1982**, 47, 2487
Moriarty, R.M.; Vaid, R.K.; Koser, G.F., *Synlett* **1990**, 365

Biographical references:

ACS Graduate Directory of Research 1999, ACS: Washington, D.C., 1999

Daniel Edward Koshland Jr.

30 March 1930 –

American, b. New York City, New York, USA

Koshland's reagent (2-hydroxy-5-naphthalenesulfonic acid)

Koshland, D.E. Jr.; Karkhanis, Y.D.; Latham, H.G. *J. Am. Chem. Soc.* **1964**, 86, 1448

Horton, H.R.; Koshland, D.E. Jr. *J. Am. Chem. Soc.* **1966**, 87, 1126

Koshland, D.E. Jr.; Latham, H.G. Jr.; Karkhanis, Y.D. US 3,312,599 (1967-04-04)

Horton, H.R.; Koshland, D.E. Jr. *Methods Enzymology* **1967**, 11, 556

Loudon, G.M.; Portsmouth, D.; Lukton, A.; Koshland, D.E. Jr. *J. Am. Chem. Soc.* **1969**,
91, 2792

Loudon, G.M.; Koshland, D.E. Jr. *J. Biol. Chem.* **1970**, 245, 2247

Horton, H.R.; Koshland, D.E. Jr. *Methods Enzymology* **1972**, 25(Pt. 2), 468

Koshland reagent number 1 (2-hydroxy-5-nitrobenzyl bromide)

Koshland, D.E. Jr.; Karkhanis, Y.D.; Latham, H.G. *J. Am. Chem. Soc.* **1964**, 86, 1448

Horton, H.R.; Koshland, D.E. Jr. *J. Am. Chem. Soc.* **1965**, 87, 1126

Koshland reagent number 2 (2-methoxy-5-nitrobenzyl bromide)

Horton, H.R.; Kelly, H.; Koshland, D.E. Jr. *J. Biol. Chem.* **1965**, 240, 722

Koshland reagent number 3 (2-bromo-2'-hydroxy-5'-nitroacetanilide)

Burr, M.; Koshland, D.E. Jr. *Proc. Natl. Acad. Sci. USA* **1964**, 52, 1017

Kirtley, M.E.; Koshland, D.E. Jr. *Biochem. Biophys. Res. Commun.* **1966**, 23, 810

Conway, A.F.; Koshland, D.E. Jr. *Biochim. Biophys. Acta* **1967**, 133, 593

Hille, M.B.; Koshland, D.E. Jr. *J. Am. Chem. Soc.* **1967**, 89, 5945

Burr, M.; Koshland, D.E. Jr. US 3379760 (1968-04-23)

Horton, H.R.; Koshland, D.E. Jr. *Methods Enzymology* **1967**, 11, 856

Kirtley, M.E.; Koshland, D.E. Jr. *J. Biol. Chem.* **1970**, 245, 276

Biographical references:

American Men of Science, Physical and Biological Sciences, 11th ed.,
R.R. Bowker: Providence, N.J., 1967

Antoine Germain Labarraque

29 May 1777 - 9 December 1850

French, b. Oloron, Pyrenees, France

Eau-de-Labarraque (sodium hypochlorite solution) 1825

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag: Frankfurt, 1989

Albert Ladenburg



2 July 1842 - 15 August 1911
German, b. Mannheim, Germany

Ladenburg benzene

Ladenburg, A., *Chem. Ber.* **1869**, 2, 140; 272

Ladenburg, A., *Chem. Ber.* **1872**, 5, 322

Ladenburg, A., *Chem. Ber.* **1873**, 6, 32

Ladenburg, A., *Chem. Ber.* **1874**, 7, 1684

Ladenburg, A., *Ann. Chem.* **1874**, 172, 331

Ladenburg, A., *Chem. Ber.* **1875**, 8, 1209

Biographical References:

Herz, W., *Chem. Ber.* **1912**, 45, 3597

Kipping, F.S., *J. Chem. Soc.* **1913**, 103, 1871

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 798

Jean Marc Lalancette

21 April 1934 -

Canadian, b. Drummondville, Quebec, Canada

Lalancette reagent (boryl hydrotrisulfide, monosodium salt)

Lalancette, J.M.; Freche, A.; Brindle, J.R.; Laliberté, M. *Synthesis* **1972**, 526

Biographical references:

American Men of Science, Physical and Biological Sciences, 11th ed.,
R.R. Bowker: Providence, N.J., 1967

Augustin Laurent

14 November 1807 – 15 April 1853

French, b. St-Maurice, Haute-Marne, France

Laurent's acid (5-amino-1-naphthalenesulfonic acid)

Laurent, A. *Compt. Rend.* **1850**, 31, 537

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag:
Frankfurt, 1989

Kapoor, S.C. in Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*,
Charles Scribner & Sons: New York, 1981, Vol. 8, 54

Charles Lauth

27 September 1836 – 5 December 1913

French, b. Nice, France

Lauth's violet (thionine; 3,7-diaminophenothiazin-5-ium chloride)

Lauch, C. *Compt. Rend.* **1876**, 82, 1441

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag:
Frankfurt, 1989

Sven-Olov Lawesson

1926 – 5 March 1985

Swedish, b. Bräcke, Jamtland, Sweden

Lawesson's reagent (2,4-bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane-2,4-disulfide)

Pedersen, B.S.; Scheibye, S.; Nilsson, N.H.; Lawesson, S.O., *Ark. Kemi* **1968**, 405

Pedersen, B.S.; Scheibye, S.; Clausen, K.; Lawesson, S.O., *Bull. Soc. Chim. Belg.* **1978**, 87, 223

Biographical References:

Private communication, Tue B. Petersen, University of California at Santa Barbara, April 21, 2005

Pedersen, E.B. *Dansk Kemi* **1986**, 66(5), 160

Wilbur Arthur Lazier

28 March 1900 -

American, b. Rochelle, Illinois, USA

Lazier catalyst (copper chromite)

Adkins, H.; Lazier, W.A. *J. Am. Chem. Soc.* **1924**, 46, 2291

Adkins, H.; Lazier, W.A. *J. Am. Chem. Soc.* **1925**, 47, 1719

Adkins, H.; Lazier, W.A. *J. Am. Chem. Soc.* **1926**, 48, 1671

Lazier, W.A.; Arnold, H.R., *Org. Synth. Coll. Vol. II* **1943**, 2, 142

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http://www.biblio.tu-bs.de/acwww25u/wbi_en/

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R.R. Bowker: Providence, N.J., 1967

Raymond Urgel Lemieux

16 June 1920 – 22 July 2000

Canadian, b. Lac la Biche, Alberta, Canada

Lemieux-Johnson reagent (sodium periodate - osmium tetroxide)

See William Summer Johnson

Lemieux-von Rudloff reagent (sodium periodate - potassium permanganate)

Lemieux, R.U.; von Rudloff, E., *Can. J. Chem.* **1955**, 33, 1701

Biographical References:

Lemieux, R.U., *Acc. Chem. Res.* **1996**, 29, 373

Lemieux, R.U., *Explorations with Sugars: How Sweet It Was*, ACS: Washington, 1990

Hindsgaul, O.; Bundle, D.R. *Bioorg. Med. Chem.* **1996**, 4, 1795

Bundle, D.R. *Biog. Memoirs Fellows Roy. Soc.* **2002**, 48, 253

Bundle, D.R. *Adv. Carbohydrate Chem.* **2003**, 58, 1

Winford Lee Lewis

29 May 1878 – 20 January 1943

American, b. Gridley, California, USA

Lewisite (2-chloroethenylarsonous dichloride)

Lewis, W.L.; Stiegler, H.W. *J. Am. Chem. Soc.* **1925**, 47, 2546

Biographical references:

Cattell, J.M.; Cattell, J. *American Men of Science*, 6th ed., The Science Press: New York, 1938

Anon. *Chem. Eng. News* **1943**, 21, 174

Personal communication, Dr. Otto-Albrecht Neumüller, February 2002

Herbert H.M. Lindlar

15 March 1909 -

Swiss, b. Switzerland

Lindlar's catalyst (palladium - calcium carbonate - lead oxide)

Lindlar, H., *Helv. Chim. Acta* **1952**, 35, 446

Biographical References:

Personal communication, Dr. Otto-Albrecht Neumüller, August 2002

Heinrich Gustav Magnus

2 May 1802 - 4 April 1870

German, b. Berlin, Germany

Magnus' green salt (Pt[NH₃]₄ PtCl₄)

Magnus, G. *Ann. Physik Chem.* **1828**, 14, 239

Biographical references:

Kauffman, G.B. in Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1974, Vol. 9, 18

Carl Ulrich Franz Mannich

8 March 1877 - 5 March 1947

German, b. Breslau, Germany, now Wroclaw, Poland

Mannich bases (β -dialkylamino ketones)

Mannich, C., *Arch. Pharm.* **1917**, 255, 261

Biographical References:

Bohme, H., *Chem. Ber.* **1955**, 88, 1

Debus, Allen G. (ed.) *World Who's Who in Science*, 1st ed., Marquis-Who's Who, Inc.:

Hannibal: Missouri, 1968

Sviatopolk Peter Marfey

1 June 1925 –

Polish-American, b. Kobaki, Poland

Marfey's reagent (N_{α} -(5-fluoro-2,4-dinitrophenyl)-L-alaninamide)

Marfey, P. *Carlsberg Res. Commun.* **1984**, 49, 591

Biographical references:

American Men of Science, Physical and Biological Sciences, 11th ed., R.R. Bowker:
Providence, N.J., 1967

Jean Charles Galissard de Marignac

24 April 1817 - 15 April 1894

Swiss, b. Geneva, Switzerland

Marignac's salt (potassium stannosulfate)

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Eugene Armand Markush

18 October 1887 - 21 April 1968

Hungarian-American, b. Hungary

Markush structures

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Eli Kennerly Marshall, Jr.

2 May 1889 - 10 January 1966

American, b. Charleston, South Carolina, USA

Bratton-Marshall reagent (N-naphthylethylenediamine dihydrochloride)

Bratton, A.C.; Marshall, E.K., Jr.; Babbitt, D.; Hendrickson, A.R. *J. Biol. Chem.* **1939**, 128, 537

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James Cullen Martin

14 January 1928 – 20 April 1999

American, b. Dover, Tennessee, USA

Dess-Martin reagent

Dess, D.B.; Martin, J.C., *J. Org. Chem.* **1983**, 48, 4155

Martin sulfurane dehydrating agent

Martin, J.C.; Arhart, R.J. *J. Am. Chem. Soc.* **1971**, 93, 2341

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Carl Alexander von Martius

19 January 1838 – 26 February 1920

German, b. Munich, Germany

Martius yellow (2,4-dinitronaphth-1-ol, sodium salt)

Martius, C. *J. Prakt. Chem.* **1867**, 102, 433

Biographical references:

Wichelhaus, H. *Ber.* **1920**, 53, 72

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John Edward McMurry

27 July 1942 -

American, b. New York, New York, USA

McMurry's reagent (titanium (III) chloride - lithium aluminium hydride)

McMurry, J.E.; Fleming, M.P., *J. Am. Chem. Soc.* **1974**, 96, 4708

Biographical References:

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Hans Leberecht Meerwein

30 May 1879 - 24 October 1965

German, b. Hamburg, Germany

Meerwein salt (trimethyloxonium tetrafluoroborate)

Meerwein, H., et al., *J. Prakt. Chem.* **1937**, 147, 257

Meerwein ester (2,6-dihydroxybicyclo[3.3.1]nona-2,6-diene-1,3,5,7-tetracarboxylic acid, tetramethyl ester)

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Jakob Meisenheimer

14 June 1876 - 2 December 1934

German, b. Griesheim am Main, Germany

Meisenheimer complex

Meisenheimer, J., *Ann. Chem.* **1902**, 323, 205

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Raphael Meldola

19 July 1849 - 16 November 1915

British, b. London, England

Meldola's blue

9-(dimethylamino)benzo[a]phenoxazin-7-ium chloride

Meldola, R. *Chem. Ber.* **1879**, 12, 2065

Meldola, R. *J. Chem. Soc.* **1881**, 39, 37

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Andrew Norman Meldrum

19 March 1876 - 12 March 1934

Scottish, b. Alloa, Scotland

Meldrum's acid (2,2-dimethyl-1,3-dioxane-4,6-dione)

Meldrum, A.N., *J. Chem. Soc.* **1908**, 93, 598

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Robert Bruce Merrifield



15 July 1921 – 14 May 2006

American, b. Fort Worth, Texas, USA

Nobel Prize Chemistry 1984

Merrifield resin

Merrifield, R.B. *J. Am. Chem. Soc.* **1963**, 85, 2149

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Viktor Merz

13 December 1839 – 25 May 1904

Ukrainian, b. Odessa, Ukraine

Ebert and Merz acids

see R. Ebert

Biographical references:

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Albert Irving Meyers

22 November 1932 -

American, b. New York, New York, USA

Meyers reagent (N-methyl-N-(2-pyridyl)formamide)

Comins, D.L.; Meyers, A.I. *Synthesis* **1978**, 403

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Wilhelm Traugott Michler

27 December 1846 - 26 November 1889

German, b. Schmerbach, Oberamt Mergentheim, Württemberg, Germany

Michler's ketone (4,4'-bis(N,N-dimethylamino)benzophenone)

Michler, W. *Chem. Ber.* **1876**, 9, 716

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Michler, W.; Zimmermann, R., *Chem. Ber.* **1879**, 12, 1165

Michler's hydride or Michler's base

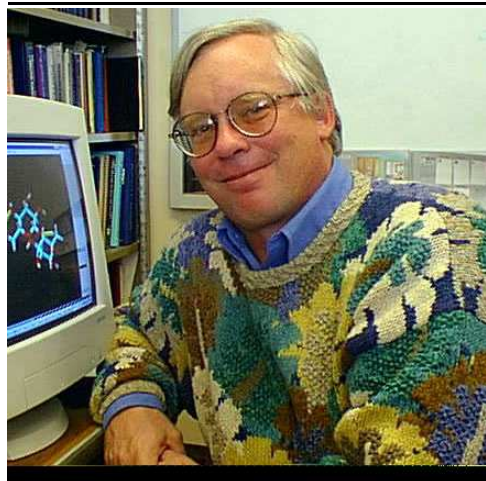
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Michael Mark Midland



1 January 1946 -

American, b. Fort Dodge, Iowa, USA

Midland's reagent (3-pinanyl-9-BBN)

Midland, M.M.; Greer, S.; Tramontano, A.; Zderic, S.A., *J. Am. Chem. Soc.* **1979**, 101, 2352

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Karl Miescher

8 January 1892 – 14 April 1974

Swiss-Italian, b. Napoli, Italy

Wieland-Miescher ketone

Wieland, P.; Miescher, K., *Helv. Chim. Acta* **1950**, 33, 2215

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Oyo Mitsunobu

Japanese, b. ?

Mitsunobu reagent (triphenylphosphine - diethylazodicarboxylate)

Mitsunobu, O.; Kato, K.; Kimura, J., *J. Am. Chem. Soc.* **1969**, 91, 6510

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John Gilbert Moffatt

19 September 1930 -

Canadian-American, b. Victoria, British Columbia, Canada

Pfizzner-Moffatt reagent (dimethylsulfoxide - dicyclohexylcarbodiimide)

Pfizzner, K.E.; Moffatt, J.G., *J. Am. Chem. Soc.* **1963**, 85, 3027

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Carl Friedrich Mohr

4 November 1806 - 28 September 1879

German, b. Koblenz, Germany

Mohr's salt (ferrous ammonium sulphate) (1855)

Biographical references:

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Harold Wesley Moore



21 May 1936 -

American, b. Fort Collins, Colorado, USA

Moore's ketene (*t*-butylcyanoketene)

Pearce, D.S.; Locke, M.J.; Moore, H.W., *J. Am. Chem. Soc.* **1975**, 97, 6181

Biographical References:

Moore, H.W.; Decker, O.H.W., *Chem. Rev.* **1986**, 86, 821

Harry Stone Mosher

31 August 1915 – 2 March 2001

American, b. Salem, Oregon, USA

Mosher's acid (α -methoxy- α -trifluoromethyl phenyl acetic acid)

Mosher esters (esters of Mosher's acid)

Mosher amides (amides of Mosher's acid)

Mosher acid chloride

Aaron, C.; Dull, D.; Schmiegel, J.L.; Jaeger, D.; Ohashi, Y.; Mosher, H.S.,
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Teruaki Mukaiyama

5 January 1927 –

Japanese, b. ?

Mukaiyama's reagent (2-chloro-1-methylpyridinium iodide)

Bald, E.; Saigo, K.; Mukaiyama, T., *Chem. Lett.* **1975**, 1163

Mukaiyama, T., *Angew. Chem. Int. Engl. Ed.* **1979**, 18, 707

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Eugen Friedrich Wilhelm Müller

6 June 1905 - 7 July 1976

German, b. Merken, near Düren, Germany

Müller's hydrocarbon (biradical)

Müller, E.; Pfanz, H. *Chem. Ber.* **1941**, 74, 1051

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Friedrich Wilhelm Muthmann

8 February 1861 - 3 August 1913

German, b. Elberfeld, Germany

Muthmann's liquid (1,1,2,2-tetrabromoethane)

Biographical references:

Hofer, J. *Chem. Ztg.* **1914**, 38,
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Giulio Natta



16 February 1903 - 1 May 1979

Italian, b. Imperia, Liguria, near Genoa, Italy

Nobel Prize Chemistry 1963

Ziegler-Natta catalyst (titanium tetrachloride, triethylaluminum)

Ziegler, K.; Holzkamp, E.; Breil, H.; Martin, H., *Angew. Chem.* **1955**, 67, 426

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Ivan Nikolaevich Nazarov

12 June 1906 - 30 July 1957

Russian, b. Koshelev, Vladimir Province (now Gorki), Russia

Nazarov's reagent (methyl 5-methoxy-3-oxopentanoate)

Nazarov, I.N.; Zav'yalov, S.I.; *J. General Chem. USSR* **1953**, 23, 1793

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Costin D. Nenitzescu

15 July 1902 - 28 July 1970

Romanian, b. Bucharest, Romania

Nenitzescu's dimer of benzocyclobutadiene

Avram, M.; Dinu, D.; Nenitzescu, C.D. *Chem. Ind.* **1959**, 257

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Nenitzescu's dichloride (cis-3,4-dichlorocyclobutene)

Avram, M.; Dinulescu, I.G.; Elian, M.; Farcasu, M.; Marica, E.; Mateescu, G.; Nenitzescu, C.D. *Chem. Ber.* **1964**, 97, 372

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Julius Nessler

1827 - 19 March 1905

Nessler reagent (dipotassium tetraiodomercurate(II))

Nessler, J. *Chem. Centr. Blatt.* **1856**, 1, 529

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Carl Neuberg

29 July 1877 - 30 May 1956

German, b. Hannover, Germany

Neuberg ester (fructose-6-phosphate)

Neuberg, C.; Kobel, M. *Biochem. Z.* **1925**, 155, 499

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R.H.C. Nevile

Nevile and Winther's acid (4-hydroxynaphthalene-1-sulfonic acid)

Nevile, R.H.C.; Winther, A. *Chem. Ber.* **1880**, 13, 1940

Biographical references:

Stefan Niementowski

4 August 1866 - 13 July 1925

Polish, b. Zolkiew (Nesterov near Lwow), Galizien

Niementowski's dye

Niementowski, S. *Chem. Ber.* **1910**, 43, 3012

Biographical references:

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Shigeo Nishimura

Japanese, b. ?

Nishimura catalyst (rhodium oxide - platinum oxide)

Nishimura, S., *Bull. Chem. Soc. Jpn.* **1960**, 33, 566

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Biographical References:

Ryoji Noyori



3 September 1938 -

Japanese, b. Kobe, Japan

Nobel Prize Chemistry 2001

Noyori reagent (lithium aluminum hydride - 2,2'-dihydroxy-1,1'-binaphthyl)

Noyori's BINAL-H reagent (1,1'-binaphthalene-2,2'-diolato)-(ethanolato)hydrido aluminate)

Noyori, R.; Tomino, I.; Tanimoto, Y., *J. Am. Chem. Soc.* **1979**, 101, 3129

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Leonard Norman Nysted

17 May 1927 -

American, b. Marshfield, Wisconsin

Nysted reagent (cyclodibromo- μ -methylene[μ -(tetrahydrofuran)]trizinc)

Nysted, L.N. US 3,865,848 (1975-02-11)

Biographical references:

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George Andrew Olah



22 May 1927 -

Hungarian-American, b. Budapest, Hungary

Nobel Prize Chemistry 1994

Olah's reagent (pyridinium poly(hydrogen fluoride))

Olah, G.A.; Nojima, M.; Kerekes, I., *Synthesis* **1973**, 779

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Wolfgang Oppolzer

4 August 1937 – 15 March 1996

Oppolzer's auxiliary (10-camphorsultam)

Oppolzer, W.; Blagg, J.; Rodriguez, I.; Walther, W., *J. Am. Chem. Soc.* **1990**, 112, 2767

Biographical references:

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George Bernson Payne

21 November 1922 -

American, b. Salt Lake City, Utah, USA

Payne's reagent (peroxybenzimidic acid)

Payne, G.B.; Williams, P.H., *J. Org. Chem.* **1961**, 26, 651

Biographical References:

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William Henry Pearlman

2 March 1914 -

American, b. New York City, New York, USA

Pearlman's catalyst (palladium hydroxide on carbon)

Pearlman, W.H. *Org. Synth. Coll. Vol. V* **1973**, 5, 670

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Nicos Andreou Petasis

1954 -

Greek-American, b. ?

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Petasis, N.A.; Akritopoulou, I. *Synlett* **1992**, 665

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Rowland Pettit

6 February 1927 -

Australian-American, b. Adelaide, Australia

Pettit complex

Fitzpatrick, J.D.; Watts, L.; Emerson, G.F.; Pettit, R. *J. Am. Chem. Soc.* **1965**, 87, 3254

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Michel Peyrone

26 May 1813 – 18 July 1865

Italian, b. Mondovi Breo, Italy

Peyrone's salt (cis-platin or cis-dichlorodiammineplatinum)

Peyrone, M. *Ann. Chem.* **1844**, 51, 1

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K.E. Pfitzner

American, b. ?

Pfitzner-Moffatt reagent (dimethylsulfoxide - dicyclohexylcarbodiimide)
see John Gilber Moffatt

Biographical References:

Oskar Piloty

30 April 1866 – 6 October 1915

German, b. Munich, Germany

Piloty's acid (benzenesulfohydroxamic acid)

Piloty, O. *Chem. Ber.* **1896**, 29, 1559

Biographical references:

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Raffaele Piria

2 August 1815 – 18 July 1865

Italian, b. Sevilla, Calabria, Italy

Piria's acid

Piria, R. *Ann.* **1851**, 78, 31

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Sir William Jackson Pope

31 March 1870 - 17 October 1939

British, b. London, England

Pope's complex

Pope, W.J.; Peachy, S.J. *Proc. Chem. Soc.* **1907**, 23, 86

Biographical references:

Gibson, C.S. *Obit. Not. Fellows Roy. Soc.* **1939-1941**, 3, 291

Murray Raney

14 October 1885 - 3 March 1966

American, b. Carrollton, Kentucky, USA

Raney nickel

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Ronald William Ratcliffe

Ratcliffe's reagent (chromium (VI) oxide - dipyridine complex)

Ratcliffe, R.W., *Org. Synth.* **1976**, 55, 84

Biographical References:

Harry W. Raybin

Raybin's reagent (5-diazouracil)

Raybin, H.W. *J. Am. Chem. Soc.* **1933**, 55, 2603

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Biographical references:

Sergei Nikolaevich Reformatskii

1860 - 28 July 1934

Russian, b. Borisoglebskoe, near Ivanovo, Russia

Reformatskii reagent (zinc - ethyl trichloroacetate)

Reformatsky, S., *Chem. Ber.* **1887**, 20, 1210

Biographical References:

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Christian Reichardt

16 November 1934 -

German, b. Ebersbach, Sachsen, Germany

Reichardt's dye

(2,6-diphenyl-4-(2,4,6-triphenylpyridinium-1-yl)phenolate)

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Tadeus Reichstein



20 July 1897 – 1996

Polish-Swiss, b. Wloclawek, Poland

Physiology & Medicine Nobel 1950

Reichstein's substance G (adrenosterone)

Reichstein, T. *Helv. Chim. Acta* **1937**, 20, 978

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Biographical references:

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The Hon. Miriam Rothschild *Biog. Memoirs Fellows Roy. Soc.* **1999**, 45, 449

Albert Reinecke

Reinecke salt (ammonium tetrathiocyanatodiammine chromate (III))

Reinecke, A., *Ann. Chem.* **1863**, 126, 113

Biographical References:

Reuben Dennis Rieke

7 March 1939 –

American, b. Lucan, Minnesota, USA

Rieke zinc

Rieke, R.D.; Uhm, S.J.; Hudnall, P.M., *Chem. Commun.* **1973**, 269

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

Sydney Ringer

1835 - 14 October 1910

British, b. Norwich, England

Ringer's solution (aqueous solution of sodium chloride, potassium chloride, and calcium chloride)

Ringer, S., *J. Physiology* **1880 -1882**, 3, 195

Biographical References:

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Moore, B., *Biochem. J.* **1911**, 5, i – xix

E.A.S., *Proc. Roy. Soc. London* **1912**, B84, i - iii

Rochelle

La Rochelle, France

Rochelle salt (sodium potassium tartrate tetrahydrate)
Discovered in 1672 by an apothecary named Elie Seignette
(b. La Rochelle, France, 1632 - 1698)
Sharp, G., *Pharm. J.* **1911**, 86, 33
Personal communication, Dr. Otto-Albrecht Neumüller, February 2002

Roger E. Rondeau

Rondeau's reagent
(tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)praseodymium

Sievers, R.E.; Rondeau, R.E. *J. Am. Chem. Soc.* **1971**, 93, 1522
Rondeau, R.E.; Sievers, R.E. *Anal. Chem.* **1973**, 45, 2145

Biographical references:

Karl Wilhelm Rosenmund

15 December 1844 - 1965
German, b. Berlin, Germany

Rosenmund catalyst (palladium - barium sulfate, quinoline - sulfur)
Rosenmund, K.W.; Zetsche, F., *Chem. Ber.* **1921**, 54, 425

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Zacharie Roussin

6 September 1827 – 8 April 1894
French, b. Grands Moulins, Ille-et-Vilaine, France

Roussin's black salt
Roussin's red salt
Roussin, M.L. *Ann. Chim. Phys.* **1858**, 52, 285

Biographical References:

Butler, A.R. *J. Chem. Educ.* **1982**, 59, 549

Brightman, R. *J. Soc. Dyers & Colorists* **1953**, 69, 115

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Siegfried Ruhemann

4 January 1859 - 1943

German, b. Johannesburg, East Prussia

Ruhemann's purple

2-[(1,3-dihydro-1,3-dioxo-2H-inden-2-ylidene)amino]-1H-indene-1,3(2H)-dione ion(1-)

Ruhemann, S. *Trans. Chem. Soc.* **1910**, 97, 1438; 2025

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Morrell, R.S. *J. Chem. Soc.* **1944**, 46

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Scott Douglas Rychnovksy

1959 -

Rychnovsky's TEMPO catalyst

(11b-(S)-3,5-dihydro-3,3,5,5-tetramethyl-4H-dinaphth[2,1-c:1',2'-e]azepin-4-yloxy)

Rychnovksy, S.D.; McLernon, T.L.; Rajapakse, H. *J. Org. Chem.* **1996**, 61, 1194

Rychnovksy, S.D.; Vaidyanathan, R. *J. Org. Chem.* **1999**, 64, 310

Biographical references:

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Frederick Sanger



13 August 1918 – 19 November 2013
British, b. Rendcombe, Gloucestershire, England

Nobel Prizes Chemistry 1958 and 1980

Sanger's reagent (2,4-dinitrofluorobenzene)
Sanger, F., *Biochem. J.* **1945**, 39, 507

Biographical References:

Barker, G.R. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*, American Chemical Society: Washington, DC, 1993, p. 406
Kollipara, P. *Chem. Eng. News* **2013**, 91(47), 9

Lewis Hastings Sarett

22 December 1917 - 21 November 2000
American, b. Champaign, Illinois, USA

Sarett reagent (chromium trioxide - pyridine)
Poos, G.I.; Arth, G.E.; Beyler, R.E.; Sarett, L.H., *J. Am. Chem. Soc.* **1953**, 75, 422

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Eugene Sawicki

11 July 1916 –
American, b. New Bedford, Massachusetts, USA

Sawicki's reagent (3-methyl-2-benzothiazolinonehydrazone hydrochloride)

Sawicki, E.; Hauser, T.R.; Stanley, T.W.; Elbert, W. *Anal. Chem.* **1961**, 33, 93

Sawicki, E.; Stanley, T.W.; Hauser, T.R.; Elbert, W.; Noe, J. *Anal. Chem.* **1961**, 33, 722

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Biographical references:

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Ernst Schaeffer

12 June 1889 – 2 November 1915

German, b. ?

Schaeffer's acids (6-hydroxy-naphthalene-2-sulfonic acid,
2-hydroxy-naphthalene-1-sulfonic acid)

Amino Schaeffer's acid (6-amino-naphthalene-2-sulfonic acid)

Biographical references:

Anon. *Angew. Chem.* **1915**, 28(3), 668

Franz Schardinger

1853 - 28 September 1920

Austrian, b. ?

Schardinger sugars (α -, β -, and γ -cyclodextrins)

Schardinger, F. *Wien Klin. Wochenschr.* **1904**, 17, 207

Schardinger, F. *Zentralbl. Bakteriol. Abt. II* **1911**, 29, 188

Biographical references:

Anon. *Chem. Z.* **1920**, 44, 744; 991

Anon. *Z. Angew. Chem.* **1920**, 33(2), 396

Hugo Joseph Schiff

26 April 1834 - 8 September 1915

German, b. Frankfurt, Germany

Schiff bases (imines)

Schiff, H., *Ann. Chem.* **1864**, 131, 118

Schiff, H., *Ann. Chem.* **1866**, 140, 92

Biographical References:

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Wilhelm Schlenk

22 March 1879 - 29 April 1943

German, b. Munich, Germany

Schlenk-Brauns biradical

Schlenk, W.; Brauns, M. *Chem. Ber.* **1915**, 48, 661; 716

Biographical References:

Pogg. **1961**, 7A, 122

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Alexander Julius Wilhelm Schönberg

28 October 1892 - 10 January 1985

German, b. Berlin, Germany

Schönberg's reagent

N-[bis(4-methoxyphenyl)methylene]-benzenemethanamine

Schönberg, A.; Urban, W. *Chem. Ber.* **1934**, 67, 1999

Schönberg, A.; Urban, W. *J. Chem. Soc.* **1935**, 530

Biographical references:

Singer, E. *Chem. Ber.* **1987**, 120, I

Richard Royce Schrock

4 January 1945 –

American, b. Berne, Indiana, USA

Schrock carbene

Schrock, R.R.; Meakin, P., *J. Am. Chem. Soc.* **1974**, 96, 5288

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Jeffrey Schwartz

3 January 1945 -

American, b. New York, New York, USA

Schwartz's reagent

(chlorobis(η^5 -2,4-cyclopentadien-1-yl)hydro zirconium)

Hart, D.W.; Schwartz, J., *J. Am. Chem. Soc.* **1974**, 96, 8115

Biographical References:

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Matthias Eduard Schweizer

8 August 1818 - 23 October 1860

Swiss, b. Wila, Switzerland

Schweizer's reagent (tetraamminecopper dihydroxide)

Schweizer, M.E. *J. Prakt. Chem.* **1857**, 72, 109; 344

Biographical references:

Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag: Frankfurt, 1989

Dietmar Seyferth

11 January 1929 –

German, b. Chemnitz, Germany

Seyferth-Hilbert reagent (dimethyl diazomethylphosphonate)

see Peter Hilbert

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

Fred Easley Sheibley

18 December 1906 –

American, b. Cleveland, Ohio, USA

Sheibley's reagent (6,8-dichlorobenzoyleneurea, or 6,8-dichloro-1H-quinazoline-2,4-dione)

Sheibley, F.E. *J. Org. Chem.* **1938**, 3, 414

Sheibley, F.E. *J. Org. Chem.* **1947**, 12, 743

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Howard Ensign Simmons, Jr.

17 June 1929 - 26 April 1997

American, b. Norfolk, Virginia, USA

Simmons-Smith reagent (zinc - diiodomethane)

Simmons, H.E.; Smith, R.D., *J. Am. Chem. Soc.* **1958**, 80, 5323

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Ronald Dean Smith

27 July 1930 -

American, b. Oakland, California, USA

Simmons-Smith reagent (zinc - diiodomethane)

see Howard Ensign Simmons, Jr.

Biographical References:

American Men of Science, Physical and Biological Sciences, 11th ed., R.R. Bowker: Providence, N.J., 1967

Günther Snatzke

26 October 1928 - 14 January 1992

Austrian, b. Hartberg, Austria

Snatzke's reagent (chromium (VI) oxide - dimethylformamide)

Snatzke, G., *Chem. Ber.* **1961**, 94, 729

Biographical References:

Duddeck, H., *Justus Liebigs Ann. Chem.* **1995**(6), 1

Ascanio Sobrero

12 October 1812 - 25 May 1888

Italian, b. Casale, Italy

Sobrerol, Sobrerone (pinol)

Sobrero, A. *Compt. Rend.* **1851**, 33, 66

Wallach, O.; Otto, A. *Ann. Chem.* **1889**, 253, 249

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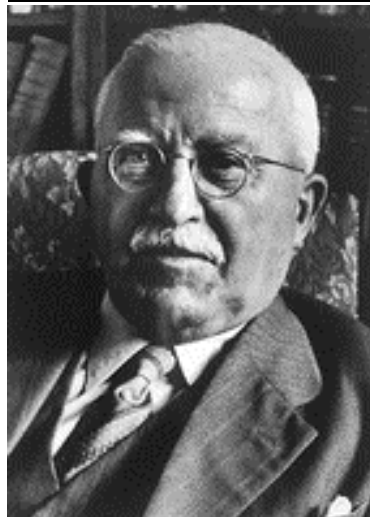
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Hermann Staudinger



23 March 1881 - 8 September 1965

German, b. Worms, Hesse, Germany

Nobel Prize Chemistry 1953

Staudinger's ketene (diphenylketene)

Staudinger, H., *Chem. Ber.* **1905**, 38, 1735

Biographical References:

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Daniel Swern

21 January 1916 - 1982

American, b. New York, New York, USA

Swern reagent (dimethylsulfoxide - oxalylchloride)

Swern reagent (dimethylsulfoxide - trifluoroacetic anhydride)

Swern, D., *Tetrahedron* **1978**, 34, 1651

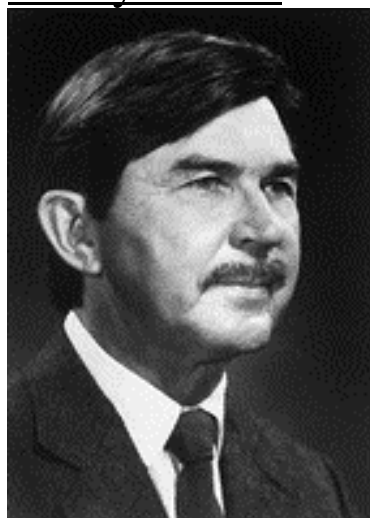
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Henry Taube



30 November 1915 – 16 November 2005

Canadian-American, b. Neudorf, Saskatchewan, Canada

Nobel Prize Chemistry 1983

Creutz-Taube complex, ion

see Carol Creutz

Biographical references:

Walsh, J. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*, American Chemical Society: Washington, DC, 1993, p. 660

Wilson, E. *Chem. Eng. News* **2005**, 83(50), 35

Frederick Nye Tebbe

20 March 1935 –

American, b. Oakland, California, USA

Tebbe reagent (μ -chlorobis(cyclopentadienyl)(dimethylaluminum) μ -methylene titanium)

Tebbe, F.N.; Parshell, G.W.; Reddy, G.S., *J. Am. Chem. Soc.* **1978**, 100, 3611

Biographical References:

Scott, J.; Mindiola, D.J. *Dalton Trans.* **2009**, 8463

Friedrich Karl Johannes Thiele

13 May 1865 - 17 April 1918

German, b. Ratibor, Germany, now Racibórz, Poland

Thiele reagent (chromium (VI) oxide - acetic anhydride)

Thiele, J.; Winter, E., *Ann. Chem.* **1900**, 311, 353

Thiele's hydrocarbon (biradical)

Thiele, J.; Balhorn, H. *Chem. Ber.* **1904**, 37, 1463

Biographical References:

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Bernhard Christian Gottfried Tollens

30 July 1841 - 31 January 1918

German, b. Hamburg, Germany

Tollens reagent (aqueous solution of silver nitrate, sodium hydroxide, and ammonium hydroxide)

Tollens, B., *Chem. Ber.* **1882**, 15, 1635

Biographical References:

Browne, C.A., *J. Chem. Educ.* **1942**, 19, 253

Wallach, O., *Chem. Ber.* **1918**, 51, 1539

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London, 1964, p. 767

Carl Julius Ludwig Tröger

10 October 1862 – 29 July 1942

German, b. Leipzig, Germany

Tröger's base

(2,8-dimethyl-6H-12H-5,11-methanodibenzo[b,f][1,5]diazocine)

Tröger, J., *J. Prakt. Chem.* **1887**, 36, 227

Biographical references:

Pogg. **1962**, 7A(S-Z), 721

Kern, *Pharmazeutische Zentralhalle* **1942**, 83, 431

K. Tsuda

Japanese, b. ?

Tsuda reagent

Tsuda, K.; Matsunaga, I. *Yakugaku zasshi (J. Pharm. Soc. Japan)* **1942**, 62, 362

Biographical references:

Hans Tuppy

22 July 1924 -

Austrian, b. Vienna, Austria

Tuppy's maleimide

(N-(4-dimethylamino-3,5-dinitrophenyl)maleimide)

Witter, A.; Tuppy, H. *Biochim. Biophys. Acta* **1960**, 45, 429

Tuppy, H. *Monatsh. Chem.* **1961**, 92, 992

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Jacobus Hubertus van Boom

14 May 1937 –

Dutch, b. Simpelveld, Netherlands

Van Boom's reagent (2-chloro-4H-1,3,2-benzodioxaphosphorin-4-one)

Westerduin, P.; Veeneman, G.H.; van der Marel, G.A.; van Boom, J.H. *Tetrahedron Lett.* **1986**, 27, 6271

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Biographical references:

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Lauri Vaska

7 May 1925 – 15 November 2015

Estonian-American, b. Rakvere, Estonia

Vaska compound (carbonylchlorobis(triphenylphosphine)iridium(I))

Vaska, L.; DiLuzio, J.W. *J. Am. Chem. Soc.* **1962**, 84, 679

Vaska, L. *Science* **1963**, 140, 809

Vaska, L.; Rhodes, R.E. *J. Am. Chem. Soc.* **1965**, 87, 4970

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Chem. Eng. News **2016**, 94(19), 37

Edwin Vedejs

31 January 1941 – 2 December 2017

Latvian-American, b. Riga, Latvia

Vedejs reagent

(oxydiperoxymolybdenum(pyridine)(hexamethylphosphoric triamide)

Vedejs, E.; Larsen, S., *Org. Synth.* **1986**, 64, 127

Biographical references:

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John G. Verkade

15 January 1935 – 6 April 2016

American, b. Chicago, Illinois, USA

Verkade's superbase

Schmidt, H.; Lensink, C.; Xi, S. K.; Verkade, J. G. *Z. Anorg. Allg. Chem.* **1989**, *578*, 75.
Wroblewski, A.; Pinkas, J.; Verkade, J. G. *Main Group Chem.* **1995**, *1*, 69.
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Heinz Günther Viehe

17 June 1929 – 2 October 2010

German, b. Bielefeld, Germany

Viehe's salt (dichloromethylenedimethylammonium chloride, or phosgene immonium chloride)

Viehe, H.G.; Janousek, Z., *Angew. Chem. Int. Engl. Ed.* **1971**, *10*, 573
Janousek, Z.; Viehe, H.G., *Angew. Chem. Int. Engl. Ed.* **1971**, *10*, 574
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Anton Vilsmeier

12 June 1894 – 12 February 1962

German, b. Burgweinting bei Regensburg, Germany

Vilsmeier reagent ((chloromethylene)dimethylammonium chloride, or DMF/POCl₃, or DMF/oxalyl chloride)

Vilsmeier, A.; Haack, A., *Chem. Ber.* **1927**, 60, 119

Biographical References:

Reichardt, C., *J. Prakt. Chem.* **1999**, 341, 609

Personal communication, Prof. Dr. Christian Reichardt, June 2001

Ernst Max von Rudloff

27 May 1923 -

German-Canadian (b. Munich, Germany)

Lemieux-von Rudloff reagent (sodium periodate - potassium permanganate)

see Raymond Urgel Lemieux

Biographical References:

Press, Jaques Cattell (ed.) *American Men & Women of Science*, 14th ed., R.R. Bowker Co.: New York, 1979

Su-Sun Wang

11 January 1934 -

Chinese-American, b. Taipei, China

Wang resin

Wang, S.S. *J. Am. Chem. Soc.* **1973**, 95, 1328

Biographical references:

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Harry M. Walborsky

25 December 1923 -

Polish-American, b. Lodz, Poland

Walborsky reagent (1,1,3,3-tetramethylbutylisocyanide)

Walborsky, H.M.; Niznik, G.E. *J. Am. Chem. Soc.* **1969**, 91, 7778

Niznik, G.E.; Morrison, W.H. III *Org. Synth.* **1971**, 51, 31

Walborsky, H.M.; Niznik, G.E. *J. Org. Chem.* **1972**, 37, 187

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Steven Martin Weinreb

10 May 1941 -

American, b. Brooklyn, New York, USA

Weinreb amide

Nahm, S.; Weinreb, S.M. *Tetrahedron Lett.* **1981**, 22, 3815

Biographical references:

R.R. Bowker's *American Men & Women of Science 1998 - 99*, 20th ed., R.R. Bowker: New Providence, New Jersey, 1998

George Willard Wheland

21 April 1907 - 28 December 1972

American, b. Chattanooga, Tennessee, USA

Wheland intermediate

Wheland, G.W., *J. Am. Chem. Soc.* **1942**, 64, 900

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Peter Wieland

26 September 1920 –

Swiss, b. Zurich, Switzerland

Wieland-Miescher ketone

see Karl Miescher

Biographical references:

Sir Geoffrey Wilkinson



14 July 1921 - 26 September 1996

British, b. Todmorden, Yorkshire, England

Nobel Prize Chemistry 1973

Wilkinson's catalyst (chlorotris(triphenylphosphine) rhodium (I))

Young, J.F.; Osborn, J.A.; Jardine, F.H.; Wilkinson, G., *Chem. Commun.* **1965**, 131

Biographical References:

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Robert M. Williams

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American, b. ?

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Richard Martin Willstätter



August 1872 - 3 August 1942
German, b. Karlsruhe, Germany

Nobel Prize Chemistry 1915

Willstätter imines

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A. Winther

Nevile and Winther's acid

see R.H.C. Nevile

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George F.K. Wittig



16 June 1897 - 26 August 1987

German, b. Berlin, Germany

Nobel Prize Chemistry 1979

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Robert Burns Woodward



10 April 1917 - 8 July 1979

American, b. Boston, Massachusetts, USA

Nobel Prize Chemistry 1965

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Casimir Würster

7 August 1854 – 29 November 1913

German, b. Weidenthal bei Neustadt am Haardt, Germany

Würster's dyes

Würster's blue

(1,4-bis(N,N'-dimethyl)benzene radical cation)

Würster's red

(1-(N,N'-dimethyl)-2-aminobenzene radical cation)

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(tetramethyl-*p*-phenylenediamine dihydrochloride)

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William Palmer Wynne

13 February 1861 – 16 February 1950

British, b. Stafford, England

Armstrong and Wynne's acids

(1,5-naphthalenedisulfonic acid; 3-amino-2,6-naphthalenedisulfonic acid; 2-amino-1,5-naphthalenedisulfonic acid; 3-amino-2,7-naphthalenedisulfonic acid)

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William Christopher Zeise

15 October 1789 – 12 November 1847

Danish, b. Slagelse, Denmark

Zeise's dimer (dichloro(ethylene)platinum dimer)

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Zeise, W.C., *Ann. Physik* **1827**, 9, 932

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Harold Hicks Zeiss

16 August 1917 –

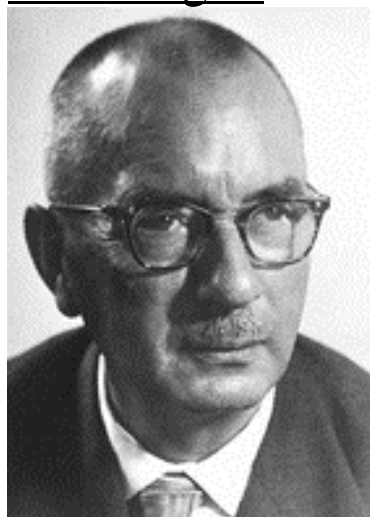
American, b. Evansville, Indiana, USA

see William von Eggers Doering

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Karl Ziegler



26 November 1898 - 11 August 1973

German, b. Helsa, Oberhessen, near Kassel, Germany

Nobel Prize Chemistry 1963

Ziegler-Natta catalyst (titanium tetrachloride - triethylaluminum)

see Giulio Natta

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