

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

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<http://www.chem.yorku.ca/NAMED/>

André Girard

French, b. ?

Girard reagent P

Girard reagent T

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

Biographical References:

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

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

Victor François Auguste Grignard



6 May 1871 - 13 December 1935

French, b. Cherbourg, France

Nobel Prize Chemistry 1912

Grignard reagent (aryl or alkyl magnesium halides)

Grignard, 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

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

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Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 858

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

Peter Hilbert

Seyferth-Gilbert 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

Wer Ist Wer? Das Deutsche Who's Who 1999/2000, Schmidt-Römhild: Lübeck, 1999

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 -
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

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

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, 1

Choung Un Kim

Corey-Kim reagent

see Elias James Corey

Biographical References:

Julius Arnold Koch

1864 - ?

American, b. ?

Koch acid

Biographical references:

Biography and Genealogy Master Index,

<http://www.library.yale.edu/pubstation/databases/biogen.html>

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

26 September 1878 - ?

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

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.,

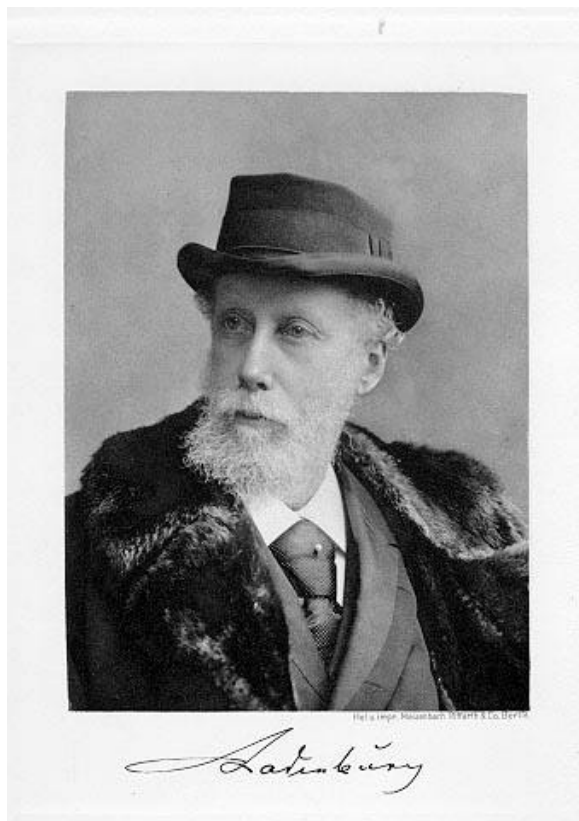
J. Org. Chem. **1982**, 47, 2487

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

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

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

Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner &
Sons: New York, 1980

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

Swedish? Belgian?, b. ?

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:

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/

American Men of Science, Physical and Biological Sciences, 11th ed.,
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

Winford Lee Lewis

29 May 1878 – ?

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

H.H.M. Lindlar

Swiss, b. ?

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

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

Biographical References:

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:

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

Carl Mannich

8 March 1877 - 5 March 1947

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

Mannich bases (?-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

Carl Alexander 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

Hans Lebrecht 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)

Meerwein, H., et al., *Ann. Chem.* **1913**, 398, 196

Biographical References:

Morris, Peter *Biographies of Chemists*, Royal Society of Chemistry, <http://www.chem.qmw.ac.uk/rschg/biog.html>

Dimroth, K., *Chem. Ber.* **1967**, 100, LV

Hesse, G., *Angew. Chem.* **1949**, 61, 161

Wurster, C., *Angew. Chem.* **1959**, 71, 317

Criegee, R., *Angew. Chem.* **1966**, 78, 347

Dimroth, K., *Angew. Chem.* **1966**, 78, 353

Jakob Meisenheimer

14 June 1876 - 2 December 1934

German, b. Griesheim am Main, Germany

Meisenheimer complex

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

Biographical References:

Mills, W.H., *J. Chem. Soc.* **1935**, 1355

World Biographical Index, K.G. Saur Publishing, http://www.biblio.tu-bs.de/acwww25u/wbi_en/

Anon., *Angew. Chem.* **1935**, 48, 55

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

Biographical References:

Forster, M.O., *J. Chem. Soc.* **1934**, 1476

Viktor Merz

13 December 1839 – 25 May 1904

Ukrainian, b. Odessa, Ukraine

Ebert and Merz acids

see R. Ebert

Biographical references:

Pogg. 3, 904; 4, 992

Buchner, E. *Chem. Ber.* **1904**, 37(3), 2529

Personal communication, Dani Tschirren, ETH-Bibliothek, Archiv der ETH Zürich

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)

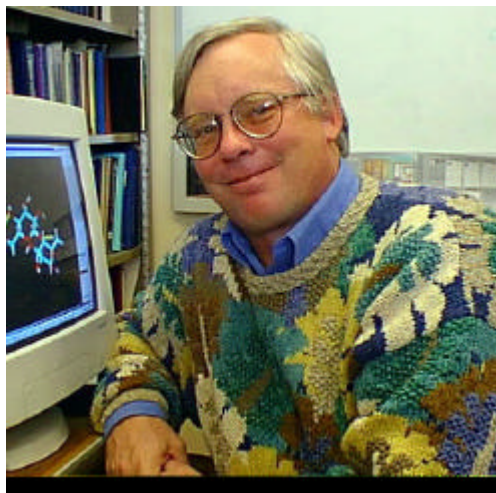
Michler, W.; Zimmermann, R., *Chem. Ber.* **1879**, 12, 1165

Michler's hydride (4,4'-bis(N,N-dimethylamino)diphenylmethane)

Biographical References:

Buchka, K., *Chem. Ber.* **1889**, 22, 867

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

Biographical References:

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

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

Biographical references:

Anon., *Chimia* **1974**, 28, 269

Personal communication, Dani Tschirren, ETH-Bibliothek, Archiv der ETH Zürich

Oyo Mitsunobu

Japanese, b. ?

Mitsunobu reagent (triphenylphosphine - diethylazodicarboxylate)

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

Mitsunobu, O.; Wada, M.; Sano, T., *J. Am. Chem. Soc.* **1972**, 94, 679

Biographical References:

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

Biographical References:

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

Carl Friedrich Mohr

4 November 1806 - 28 September 1879

German, b. Koblenz, Germany

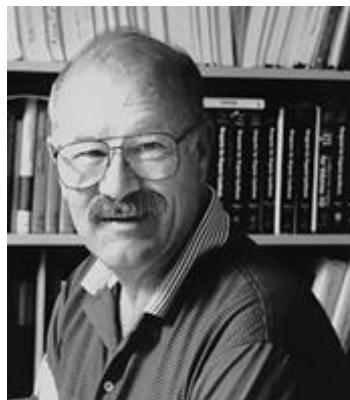
Mohr's salt (ferrous ammonium sulphate)

Biographical references:

Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1980

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.:
London, 1964, p. 317

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 (? -methoxy-? -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.,
J. Org. Chem. **1967**, 32, 2797

Biographical References:

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

Anon., *Chem. Eng. News* **2001**, 79(14), 71

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

Mukaiyama, T., *Chem. Lett.* **1984**, 1465

Biographical references:

Who's Who in Japan 1991 – 92, Asian Press: Tokyo, 1991

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

Ziegler, K.; Holzkamp, E.; Breil, H.; Martin, H., *Angew. Chem.* **1955**, 67, 541

Natta, G., *Angew. Chem.* **1956**, 68, 393

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

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

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

Biographical References:

Bergel'son, L.D., *Tetrahedron* **1959**, 6, 1161

Torgov, I.V., *J. General Chem. USSR* **1959**, 29, 693

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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:

Shigeo Nishimura

Japanese, b. ?

Nishimura catalyst (rhodium oxide - platinum oxide)

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

Nishimura, S., *Bull. Chem. Soc. Jpn.* **1961**, 34, 32

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

Biographical References:

Noyori, R.; Tokunaga, M.; Kitamura, M., *Bull. Chem. Soc. Jp.* **1995**, 68, 36

Rouhi, A.M. *Chem. Eng. News* **2001**, 79(30), 33

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

Biographical References:

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

Wolfgang Oppolzer

1937 –

Oppolzer's auxiliary (10-camphorsultam)

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

Biographical references:

Chemical Research Faculties: An International Directory 1996, American Chemical Society: Washington, D.C., 1996

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:

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

W.M. Pearlman

Pearlman's catalyst (palladium hydroxide on carbon)

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

Pearlman, W.H. *Tetrahedron Lett.* **1967**, 1663

Biographical references:

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

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

Peyrone, M. *Ann. Chim. Phys.* **1844**, 12, 193

Peyrone, M. *Ann. Chem.* **1845**, 55, 205

Peyrone, M. *Ann. Chim. Phys.* **1846**, 16, 462

Biographical references:

Doldi, S. *Chim. Ind. (Milan)* **1995**, 77, 989

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:

Harries, C., *Chem. Ber.* **1920**, 53IA, 153

Raffaele Piria

2 August 1815 – 18 July 1865

Italian, b. Sevilla, Calabria, Italy

Piria's acid

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

Biographical references:

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Murray Raney

14 October 1885 - 1966

American, b. Carrollton, Kentucky, USA

Raney nickel

US Patent 1,628,190 issued May 10, 1927

Raney, M., *Ind. Eng. Chem.* **1940**, 32, 1199

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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:

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:

Semenzow, A., *Chem. Ber.* **1935**, 68A, 61

Sementsov, A., *J. Chem. Educ.* **1957**, 34, 530

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London, 1964, p. 858

Christian Reichardt

16 November 1934 -

German, b. Ebersbach, Sachsen, Germany

Reichardt's dye

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

Reichardt, C., Harbusch-Gornert, E., *Ann. Chem.* **1983**, 721

Reichardt, C., *Chem. Soc. Rev.* **1992**, 21, 147

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Reichardt, C., *Chem. Rev.* **1994**, 94, 2319

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:

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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

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

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

Rochelle

La Rochelle, France

Rochelle salt (sodium potassium tartrate tetrahydrate)

Discovered in 1672 by an apothecary named Seignette

Sharp, G., *Pharm. J.* **1911**, 86, 33

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

Biographical References:

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Pogg. **1959**, 7A(3), 814

Frederick Sanger



13 August 1918 -
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:

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Lewis Hastings Sarett

22 December 1917 -
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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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

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

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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

Schrock, R.R., *J. Am. Chem. Soc.* **1974**, 96, 6796

Schrock, R.R.; Fellmann, J.D., *J. Am. Chem. Soc.* **1978**, 100, 3359

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Jeffrey Schwartz

3 January 1945 -

American, b. New York, New York, USA

Schwartz's reagent (chlorobis(cyclopentadienyl)hydrido zirconium)

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

Biographical References:

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New Providence, New Jersey, 1998

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

Biographical references:

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Providence, N.J., 1967

Howard Ensign Simmons, Jr.

17 June 1929 -
American, b. Norfolk, Virginia, USA

Simmons-Smith reagent (zinc - diiodomethane)

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

Biographical References:

Press, Jaques Cattell (ed.) *American Men & Women of Science*, 14th ed., R.R. Bowker
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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

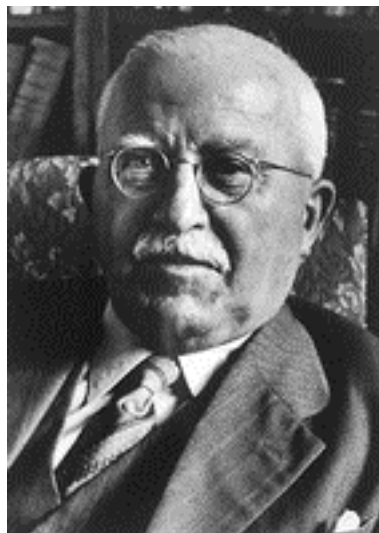
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Snatzke, G., *Chem. Ber.* **1961**, 94, 729

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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:

Hopff, H., *Chem. Ber.* **1969**, 102, XLI

Anon., *Chem. Eng. News* **1998**, 76(2), 171

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Kern, W., *Angew. Chem.* **1951**, 63, 229

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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

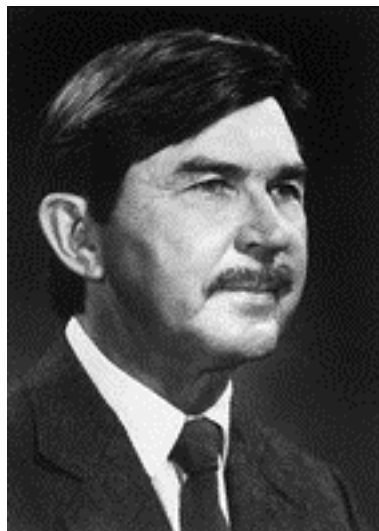
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Henry Taube



30 November 1915 –

Canadian-American, b. Neudorf, Saskatchewan, Canada

Nobel Prize Chemistry 1983

Creutz-Taube complex, ion

see Carol Creutz

Biographical references:

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Frederick Nye Tebbe

American, b. ?

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

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

Biographical References:

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

Biographical References:

Straus, F., *Chem. Ber.* **1927**, 60A, 75

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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:

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Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.:
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)^{II}, 721

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

Edwin Vedejs

31 January 1941 –
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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Heinz Gunter Viehe

1929 –

German, b. ?

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

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

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

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 K. Miescher

Biographical references:

Personal communication, Dani Tschirren, ETH-Bibliothek, Archiv der ETH Zürich

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

1953 –

American, b. ?

Williams glycinate

Williams, R.M.; Sinclair, P.J.; Zhai, D.; Chen, D., *J. Am. Chem. Soc.* **1988**, 110, 1547
Sinclair, P.J.; Zhai, D.; Reibenspies, J.; Williams, R.M., *J. Am. Chem. Soc.* **1986**, 108, 1103

Biographical references:

Williams, R.M.; Hendrix, J., *Chem. Rev.* **1992**, 92, 889

Richard Martin Willstätter



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

Nobel Prize Chemistry 1915

Willstätter imines

Willstätter, R.; Moore, C.W.; *Chem. Ber.* **1907**, 40, 2665

Biographical references:

Robinson, Sir R., *J. Chem. Soc.* **1953**, 999

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Robinson, Sir R., Roy. Soc. Obit. Not. Fellows, **1952 - 1953**, 8, 609

A. Winther

Nevile and Winther's acid

see R.H.C. Nevile

Biographical references:

George F.K. Wittig



16 June 1897 - 26 August 1987
German, b. Berlin, Germany

Nobel Prize Chemistry 1979

Wittig reagent (triphenylphosphonium methylides)

Wittig, G.; Schollkopf, U. *Chem. Ber.* **1954**, 87, 1318

Biographical References:

Anon., *Chem. Eng. News* **1998**, 76(2), 171

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Robert Burns Woodward



10 April 1917 - 8 July 1979
American, b. Boston, Massachusetts, USA

Nobel Prize Chemistry 1965

Woodward's reagent (N-ethyl-5-phenylisoxazolium-3'-sulfonate)

Woodward, R.B.; Olofson, R.A., *J. Am. Chem. Soc.* **1961**, 83, 1007

Biographical References:

Todd, Lord; Cornforth, Sir J., *Biog. Memoirs Fellows Roy. Soc.* **1981**, 27, 629

Anon., *Chem. Eng. News* **1998**, 76(2), 171

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American Chemical Society: Washington, DC, 1993

Casimir Wurster

7 August 1854 – 29 November 1913

German, b. Weidenthal bei Neustadt am Haardt, Germany

Wurster's dye, Wurster's blue

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

Wurster, C., *Chem. Ber.* **1879**, 12, 1803; 1807; 2071

Wurster, C., *Chem. Ber.* **1886**, 19, 3195

Wurster's reagent

(tetramethyl-*p*-phenylenediamine dihydrochloride)

Wurster, C. *Chem. Ber.* **1879**, 12, 522

Biographical references:

Pogg. **1904**, 4, 1674

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)

Armstrong, H.E. *J. Chem. Soc.* **1871**, 24, 173

Armstrong, H.E. *Chem. Ber.* **1882**, 15, 200

Armstrong, H.E.; Wynne, W.P. *Proc. Chem. Soc.* **1890**, 6, 12

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Biographical references:

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Rodd, E.H. *Obit. Notices Fellows Roy. Soc.* **1950 – 1951**, 7, 519

Pogg. 4, 1675; 6(4), 2941; 7B(9), 6111

William Christopher Zeise

15 October 1789 – 12 November 1847

Danish, b. Slagelse, Denmark

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

Zeise's salt (potassium trichloro(ethylene) platinum)

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

Biographical references:

Pogg. **1863**, 2, 1401

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Harold Hicks Zeiss

16 August 1917 –

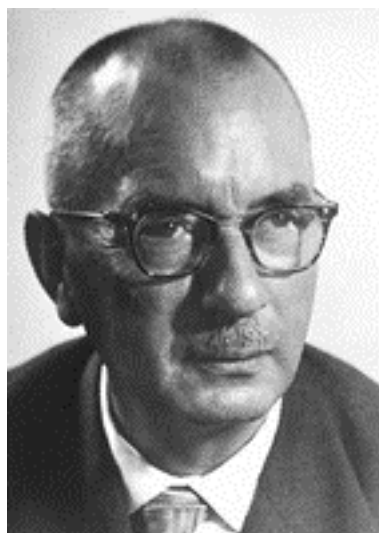
American, b. Evansville, Indiana, USA

see William von Eggers Doering

Biographical references:

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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

Biographical References:

Bawn, C.E.H., *Biog. Memoirs Fellows Roy. Soc.* **1975**, 21, 569

Anon., *Chem. Eng. News* **1998**, 76(2), 171

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