

# NAMED ORGANIC REACTIONS

## (E – H)

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Department of Chemistry, York University  
4700 Keele Street, Toronto, ONTARIO M3J 1P3, CANADA

For suggestions, corrections, additional information, and comments please send e-mails to [c1000@careerchem.com](mailto:c1000@careerchem.com)

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

### Pehr Victor Edman

14 April 1916 - 19 March 1977

Swedish, b. Stockholm, Sweden

Edman degradation

Edman, P., *Acta Chem. Scand.* **1950**, 4, 283

Biographical references:

Partridge, S.M.; Blomback, B., *Biog. Memoirs Fellows Roy. Soc.* **1979**, 25, 241

### Geoffrey Eglinton

1 November 1927 -

British, b. Cardiff, Wales

Eglinton reaction

Eglinton, G.; Jones, E.R.H.; Shaw, B.L.; Whiting, M.C., *J. Chem. Soc.* **1954**, 1860

Biographical references:

Debus, Allen G. (ed.) *World Who's Who in Science*, 1st ed., Marquis-Who's Who, Inc.: Hannibal: Missouri, 1968

### Bernd Eistert

9 November 1902 - 22 May 1978

German, b. Ohlau, lower Silesia, Germany

Arndt-Eistert synthesis

see Fritz Arndt

### Biographical references:

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

Regitz, M.; Heydt, H.; Schank, K.; Franke, W., *Chem. Ber.* **1980**, 113, XXIX  
Pötsch, W.R.; Fischer, A.; Müller, W., *Lexikon bedeutender Chemiker*, Verlag:  
Frankfurt, 1989

## Karl Elbs

13 September 1858 – 24 August 1933

German, b. Alt-Breisach, Baden, Germany

### Elbs reaction

Elbs, K., Larsen, E., *Chem. Ber.* **1884**, 17, 2847  
Elbs, K., *J. Prakt. Chem.* **1893**, 48, 179

### Biographical references:

*Pogg.* **1904**, 4, 374; **1926**, 5, 333  
Weitz, E., *Chem. Ber.* **1933**, 66A, 74

## Hermann Karl Christian Maximilian Emde

10 December 1880 – 19 July 1935

German, b. Opladen, Rheinland, Germany

### Emde reaction

Emde, H., *Chem. Ber.* **1909**, 42, 2590  
Emde, H., *Ann. Chem.* **1912**, 391, 88  
Emde, H.; Kull, H., *Arch. Pharm.* **1936**, 274, 173

### Biographical references:

*Pogg.* **1926**, 5, 335; **1937**, 6, 661; **1956**, 7A(1), 500  
Wallrabe, G., *Chem. Ber.* **1935**, 68A, 164  
Anon., *Angew. Chem.* **1935**, 48, 616

## William David Emmons

18 November 1924 - 8 December 2001

American, b. Minneapolis, Minnesota, USA

### Horner-Wadsworth-Emmons reaction

Horner, L.; Hoffmann, H.; Wippel, H.G., *Chem. Ber.* **1958**, 45, 61  
Wadsworth, W.S., Jr.; Emmons, W.D., *J. Am. Chem. Soc.* **1961**, 83, 1733

### Biographical references:

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Press, Jaques Cattell (ed.) *American Men & Women of Science*, 14th ed.,  
R.R. Bowker Co.: New York, 1979  
Morrissey, S. *Chem. Eng. News* **2002**, 80(9), 47

## Richard August Carl Emil Erlenmeyer



28 June 1825 - 22 January 1909

German, b. Wehen, near Wiesbaden, Germany

### Erlenmeyer (azlactone) synthesis

Erlenmeyer, E. *Ann. Chem.* **1893**, 275, 1

Ploechl, J. *Chem. Ber.* **1884**, 17, 1616

### Biographical References:

W.H.P., *J. Chem. Soc.* **1911**, 99, 1649

Anon., *Chem. Ber.* **1921**, 54A, 107

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Kiliani, H., *Angew. Chem.* **1909**, 22, 481

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 764

Conrad, M. *Chem. Ber.* **1910**, 43, 3645

## Albert Eschenmoser

5 August 1925 -

Swiss, b. Erstfeld, Switzerland

## Eschenmoser fragmentation

Eschenmoser, A.; Felix, D.; Ohloff, G. *Helv. Chim. Acta* **1967**, 50, 708

## Biographical References:

Sorensen, E.J. *Helv. Chim. Acta* **2000**, 83, 1673

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Prelog, V. *Aldrichimia Acta* **1990**, 23, 59

## Wilhelm Eschweiler

1 December 1860 - 21 March 1936

German, b. Euskirchen, Germany

## Eschweiler-Clarke reaction

see Hans Thacher Clarke

## Biographical references:

Biltz, W.; Seubert, K., *Angew. Chem.* **1930**, 43, 1037

Anon., *Angew. Chem.* **1936**, 49, 290

*Pogg.* **1904**, 4, 394

## Alexandre Léon Étard

5 January 1852 – 1 May 1910

French, b. Alençon, Orne, France

## Étard reaction

Etard, M.A., *Compt. Rend.* **1880**, 90, 534

Etard, M.A., *Ann. Chim. Phys.* **1881**, 22, 223

## Biographical references:

*Pogg.* **1898**, 3, 419; **1904**, 4, 395; **1926**, 5, 346

Lebeau, P., *Bull. Soc. Chim. Fr.* **1911**, 9, i

## Alexei Yevgrafovich Favorskii

6 March 1860 - 8 August 1945

Russian, b. Pavlovo, Russia

## Favorskii rearrangement

Favorskii, A.E., *J. Prakt. Chem.* **1913**, 88, 658

## Biographical references:

Kuznetsov, V.I. in Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1971, Vol. 4, 553

## Herman Christian von Fehling

9 June 1812 - 1 July 1885

German, b. Lübeck, Germany

### Fehling reaction

Fehling, H., *Ann. Chem.* **1849**, 72, 106

### Biographical references:

Anon., *J. Chem. Soc.* **1886**, 49, 346

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

## Henry John Horstman Fenton

18 February 1854 - 13 January 1929

British, b. Ealing, England

### Fenton reaction

Fenton, H.J.H., *Proc. Chem. Soc.* **1893**, 9, 113

### Ruff-Fenton degradation

Ruff, O., *Chem. Ber.* **1898**, 31, 1573

### Biographical references:

W.H.M., *J. Chem. Soc.* **1930**, 889

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*Pogg.* **1937**, 6(2), 723

Mills, W.H. *Endeavour* **1954**, 13, 205

*Proceedings Roy. Soc. London A* **1930**, 127, i-v signed by W H M

## Hans Finkelstein

17 May 1885 – December 1938

German, b. Leipzig, Germany

### Finkelstein reaction

Perkin, W.H.; Duppa, B.F., *Ann. Chem.* **1859**, 112, 125

Finkelstein, H., *Chem. Ber.* **1910**, 43, 1528

### Biographical references:

Baker, W.; McOmie, J.F.W., *Chem. Ber.* **1959**, 92, XXXVII

## Emil Hermann Fischer



9 October 1852 - 15 July 1919  
German, b. Euskirchen, Germany

Nobel Prize Chemistry 1902

Fischer esterification

Fischer, E.; Speier, A., *Chem. Ber.* **1895**, 28, 3252

Fischer indole synthesis

Fischer, E.; Jourdan, F., *Chem. Ber.* **1883**, 16, 2241

Kiliani-Fischer synthesis

Kiliani, H., *Chem. Ber.* **1885**, 18, 3066

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Lichtenthaler, F.W. *Eur. J. Org. Chem.* **2002**, 4095

Kunz, H. *Angew. Chem. Int. Ed.* **2002**, 41, 4439

## Ernst Otto Fischer



10 November 1918 –

German, b. Munich, Germany

Nobel Prize Chemistry 1973

### Fischer-Hafner reaction

Fischer, E.O.; Hafner, W. GB 829574 (1960-03-02)

Fischer, E.O.; Hafner, W.; Ofele, K. *Chem. Ber.* **1959**, 92, 3050

Fischer, E.O.; Hafner, W. *Z. Anorg. Chem.* **1956**, 286, 146

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### Biographical references:

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New Providence, New Jersey, 1998

Bonnesen, P.V. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*,  
American Chemical Society: Washington, DC, 1993, p. 551

## Franz Joseph Emil Fischer

19 March 1877 - 1 December 1947

German, b. Freiburg im Breisgau, Germany

### Fischer-Tropsch process

Fischer, F.; Tropsch, H., *Chem. Ber.* **1923**, 56, 2428

### Biographical references:

Morris, Peter Biographies of Chemists, Royal Society of Chemistry,

<http://www.chem.qmw.ac.uk/rschg/biog.html>

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Ziegler, Z., *Angew. Chem.* **1948**, 60, 56

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## Otto Philipp Fischer

28 November 1852 – 4 April 1932

German, b. Euskirchen, Rheinland, Germany

### Fischer-Hepp rearrangement

Fischer, O.; Hepp, E. *Ber.* **1886**, 19, 2291

Fischer, O.; Hepp, E. *Ber.* **1887**, 20, 1247; 2471

Fischer, O. *Ber.* **1912**, 45, 1098

### Biographical references:

Bodenstein, M. *Ber.* **1932**, 65, 78

## Rudolph Fittig



6 December 1835 - 19 November 1910

German, b. Hamburg, Germany

### Wurtz-Fittig reaction

Tollens, B.; Fittig, R., *Ann. Chem.* **1864**, 131, 303



### Biographical references:

R.M, *J. Chem. Soc.* **1911**, 99, 1651

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

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## Curt Freytag

17 June 1884 - ?

German, b. ?

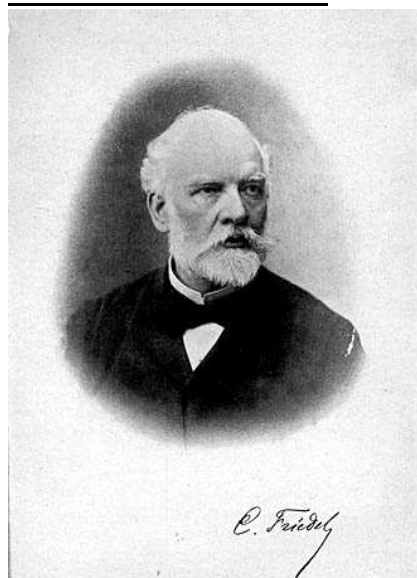
Hofmann-Löffler-Freytag reaction

see August Wilhelm von Hofmann, Karl Löffler

### Biographical references:

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

## Charles Friedel



12 March 1832 - 20 April 1899

French, b. Strasbourg, France

Friedel-Crafts alkylation reaction

Friedel-Crafts acylation reaction

see James Mason Crafts

Biographical references:

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

Herzig, J., *Chem. Ber.* **1899**, 32, 3721

## Paul Friedländer

29 August 1857 - 4 September 1923

German, b. Königsberg, Prussia

Friedländer synthesis

Friedländer, P., *Chem. Ber.* **1882**, 15, 2572

Biographical references:

von Weinberg, A., *Chem. Ber.* **1924**, 57A, 13

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

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*Pogg.* **1904**, 4, 459

## Karl Theophil Fries

13 March 1875 - 6 September 1962

German, b. Kiedrich, near Wiesbaden, Germany

Photo-Fries rearrangement, Fries rearrangement

Fries, K.; Finck, G., *Chem. Ber.* **1908**, 41, 4271

Biographical references:

Morris, Peter *Biographies of Chemists*, Royal Society of Chemistry,

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Bestian, H., *Chem. Ber.* **1984**, 117, XXIII

Wittig, G., *Angew. Chem.* **1950**, 62, 152

## Paul Ernst Moritz Fritsch

10 April 1859 - 11 April 1913

German, b. Oels, Schlesien, Germany

Fritsch-Buttenberg-Wiechell rearrangement

see Wilhelm Paul Buttenberg, H. Wiechell

### Biographical references:

World Biographical Index, K.G. Saur Publishing,  
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*Pogg.* **1904**, 4, 462

## Siegmund Gabriel

7 November 1851 - 22 March 1924

German, b. Berlin, Germany

### Gabriel synthesis

Gabriel, S., *Chem. Ber.* **1887**, 20, 2224

### Biographical references:

Colman, J., *Chem. Ber.* **1926**, 59A, 7  
Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., *Biographical Encyclopedia of Scientists*, Institute of Physics Publishing: Bristol, UK, 1994  
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Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 839

## Ludwig Gattermann

20 April 1860 - 20 June 1920

German, b. Goslar, Germany

### Gattermann-Koch reaction

Gattermann, L.; Koch, J.A., *Chem. Ber.* **1897**, 30, 1622

### Gattermann reaction

Gattermann, L., *Chem. Ber.* **1898**, 31, 1149

### Biographical references:

Jacobsen, P., *Chem. Ber.* **1921**, 54A, 115  
Morris, Peter *Biographies of Chemists*, Royal Society of Chemistry,  
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Fromm, E., *Angew. Chem.* **1920**, 33, 185

## Carl Andreas Glaser

27 June 1841 – 25 July 1935

German, b. Kirchheimbolanden, Rheinpfalz, Germany

### Glaser coupling reaction

Glaser, C., *Chem. Ber.* **1869**, 2, 422

### Biographical references:

*Pogg.* **1898**, 3, 526; **1904**, 4, 503; **1937**, 6(2), 901; **1958**, 7A(2), 210

Kunz, M.A., *Chem. Ber.* **1935**, 68A, 166

Muller, C., *Angew. Chem.* **1927**, 40, 273

## Carl Goldschmidt

1861 – 1923

### Bamberger-Goldschmidt synthesis of isoquinolines

Bamberger, E.; Goldschmidt, C. *Chem. Ber.* **1894**, 27, 1954

### Biographical references:

## Moses Gomberg

8 February 1866 - 12 February 1947

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

### Gomberg-Bachmann reaction

see Werner Emmanuel Bachmann

### Biographical references:

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

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

## William Hardin Graham

27 April 1932 -

American, b. Birmingham, Alabama, USA

### Graham reaction

Graham, W.H., *J. Am. Chem. Soc.* **1965**, 87, 4396

Graham, W.H., *J. Org. Chem.* **1965**, 30, 2108

### Biographical references:

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## Paul Anthony Grieco

27 October 1944 -

American, b. Framingham, Massachusetts, USA

Grieco condensation

Grieco, P.A.; Bahsas, A. *Tetrahedron Lett.* **1988**, 29, 5855

Biographical references:

American Men and Women of Science, 21st ed., R.R. Bowker: Providence, N.J., 2002

## Johann Peter Griess

6 September 1829 – 30 August 1888

German, b. Kirchhesbach, Hessen, Germany

Griess reaction (diazotization reaction)

Griess, P., *Ann. Chem.* **1858**, 106, 123

Biographical references:

*Pogg.* **1898**, 3, 548

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Wizinger-Aust, R., *Angew. Chem.* **1958**, 70, 199

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## Victor François Auguste Grignard



6 May 1871 - 13 December 1935

French, b. Cherbourg, France

## Nobel Prize Chemistry 1912

### Grignard reaction

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

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Kagan, H.B. *Angew. Chem. Int. Ed.* **2012**, 51, 7376

## Cyril A. Grob

12 March 1917 – 15 December 2003

British, b. Streatham, England

### Grob fragmentation

Grob, C.A., Baumann, W., *Helv. Chim. Acta* **1955**, 38, 594

Grob, C.A., *Angew. Chem. Int. Engl. Ed.* **1969**, 8, 535

### Biographical references:

*Pogg.* **1958**, 7A(2), 276

Schiess, P. *Angew. Chem. Int. Ed.* **2004**, 43, 4392

## Marcel Guerbet

5 July 1861 – 20 December 1938

French, b. Clamecy, France

### Guerbet reaction

Guerbet, M. *Comptes Rend.* **1899**, 128, 511

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Guerbet, M. *Annales de Chimie* **1902**, 7(27), 67

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### Biographical references:

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Fabre, R. J. *Pharmacie et Chimie* **1939**, *29*, 280.

Pallardy, G. *Revue d'Histoire de la Pharmacie* **1995**, *83*, 72

## Albrecht Haack

6 December 1898 – 22 September 1976

German, b. Südende bei Berlin, Germany

### Vilsmeier-Haack-Arnold reaction

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

Arnold, Z.; Sorm, F., *Collect. Czech. Chem. Commun.* **1958**, *23*, 452

Svoboda, M.; Synácková, M.; Samek, Z.; Fiedler, P.; Arnold, Z.,

*Collect. Czech. Chem. Commun.* **1978**, *43*, 1261

### Biographical references:

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

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

## Walter Hafner

### Fischer-Hafner reaction

see Ernst Otto Fischer

### Biographical references:

## Dalziel Llewellyn Hammick

8 March 1887 - 17 October 1966

British, b. West Norwood, London, England

### Hammick reaction

Dyson, P.; Hammick, D.L., *J. Chem. Soc.* **1937**, 1724

### Biographical references:

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

Bowen, E.J., *Biog. Memoirs Fellows Roy. Soc.*, **1967**, *13*, 107

## Arthur Rudolf Hantzsch

7 March 1857 - 14 March 1935

German, b. Dresden, Germany

### Hantzsch pyridine synthesis

Hantzsch, A., *Ann. Chem.* **1882**, 215, 1

Hantzsch, A., *Ann. Chem.* **1882**, 215, 72

### Biographical references:

Burawoy, A., *Chem. Ber.* **1935**, 68A, 65

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Paal, C., *Angew. Chem.* **1927**, 40, 301

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 842

## Charles Roy Hauser

8 March 1900 - 6 January 1970

American, b. California, USA

### Sommelet-Hauser rearrangement

Sommelet, M., *Compt. Rend.* **1937**, 205, 56

Hauser, C.R.; Kantor, S.W., *J. Am. Chem. Soc.* **1951**, 73, 1437

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## Carl Dietrich Harries

5 August 1866 – 3 November 1923

German, b. Luckenwalde, Mark Brandenburg, Germany

### Harries ozonolysis reaction

Harries, C., *Ann. Chem.* **1905**, 343, 311

### Biographical references:

*Pogg.* **1904**, 4, 587; **1926**, 5, 500; **1937**, 6(2), 1029

Willstatter, R., *Chem. Ber.* **1926**, 59, 123



Nagel, W., *Angew. Chem.* **1924**, 37, 105

## Robert Downs Haworth

15 March 1898 - 19 May 1990

British, b. near Manchester, England

### Haworth phenanthrene synthesis

Haworth, R.D. *J. Chem. Soc.* **1932**, 1125; 2717

Haworth, R.D.; Letsky, B.M.; Mavin, C.R. *J. Chem. Soc.* **1932**, 1784

Haworth, R.D.; Bolam, F.M. *J. Chem. Soc.* **1932**, 2248

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Haworth, R.D.; Mavin, C.R.; Sheldrick, G. *J. Chem. Soc.* **1934**, 454

### Biographical references:

Jones, Sir E. *Biog. Mem. Fellows Roy. Soc.* **1991**, 37, 263

## Richard Fred Heck

15 August 1931 -

American, b. Springfield, Massachusetts, USA

### Heck reaction

Heck, R.F.; Nolley, J.P., Jr., *J. Org. Chem.* **1972**, 37, 2320

### Biographical references:

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

## Burkhardt Helferich

10 June 1887 - 5 July 1982

German, b. Griefswald, Germany

### Helferich method

Helferich, B.; Schmitz-Hillebrecht, E. *Chem. Ber.* **1933**, 66, 378

### Biographical references:

Bredereck, H. *Angew. Chem.* **1957**, 69, 405

Stetter, H. *Chem. Ber.* **1985**, 118, 1

Stetter, H. *Adv. Carbohydrate Chem.* **1987**, 45, 1

## Carl Magnus von Hell

8 September 1849 - 11 December 1926

German, b. Stuttgart, Germany

## Hell-Volhard-Zelinsky reaction

Hell, C., *Chem. Ber.* **1881**, 14, 891

Volhard, J., *Ann. Chem.* **1887**, 242, 141

Zelinsky, N., *Chem. Ber.* **1887**, 20, 2026

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Kauffmann, H., *Chem. Ber.* **1927**, 60A, 54

## Louis Henry

26 December 1834 – 9 March 1913

Belgian, b. Marche, Belgium

## Henry reaction

Henry, L., *Compt. Rend.* **1895**, 120, 1265

## Biographical references:

*Pogg.* **1904**, 4, 617; **1926**, 5, 521

## Eduard Hepp

11 June 1851 – 18 June 1917

German, b. Strasburg, Germany (now France)

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German, b. ?

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German, b. Berlin, Germany

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## Kurt Hoesch

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German, b. Düren, Germany

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19 April 1864 - 12 October 1935

British-American, b. Brenchley, Kent, England

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Leopold Horner

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German, b. Kehl, Rhine, Germany

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A.Hosomi

Japanese, b. ?

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Josef Houben

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German, b. Waldfeucht, Rheinland, Germany

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Hienz Hunsdiecker

22 January 1904 - 22 November 1981

German, b. Cologne, Germany

Clare Hunsdiecker (nee Dieckmann)

1903 - June 1995

German, b. Kiel, Germany

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