

Frontier Scientific, Inc. P.O. Box 31 Logan, UT 84323-0031 Phone: 1-435-753-1901 www.frontiersci.com sales@frontiersci.com **Technical Data Sheet**

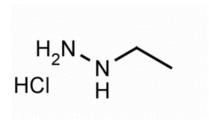
Catalog No: E13445

For research use only

Not intended or approved for diagnostic or therapeutic use.

Product Name: 1-Ethylhydrazine hydrochloride

Catalog Number: E13445



Sizes Available: 1 g, 5g, and larger sizes available

Molecular weight: 96.56 g/mol

Molecular Formula: C₂H₉ClN₂

CAS Number: 18413-14-4

Storage: Store at 2-8 C°, under dry conditions.

Synonyms: Ethylhydrazine hydrochloride, 18413-14-4, Hydrazine, ethyl-, monohydrochloride, 1-Ethylhydrazine hydrochloride, Ethylhydrazine.HCl

Uses: Reactive reagent, protein labelling, active site labels, active site mapping, pyrazole synthesis, pharmaceutical synthesis, medicinal chemistry of pyrazole

1-Ethylhydrazine hydrochloride, is a synthetic fine chemical useful for studying the biochemistry of macromolecules.

Selected References:

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Antonini, Ippolito, Paolo Polucci, Amelia Magnano, and Sante. Martelli. Synthesis, Antitumor Cytotoxicity, and DNA-Binding of Novel N-5,2-Di(ω-Aminoalkyl)-2,6-Dihydropyrazolo[3,4,5-Kl]Acridine-5-Carboxamides. *Journal of Medicinal Chemistry* 44, (2001): 3329–33. https://doi.org/10.1021/jm010917o.

Ator, Mark A., Shantha K. David, and Paul R. Ortiz de Montellano. Stabilized Isoporphyrin Intermediates in the Inactivation of Horseradish Peroxidase by Alkylhydrazines. *Journal of Biological Chemistry* 264, (1989): 9250–57.

Calle, Mariola, Luis A. Calvo, Alfonso Gonzalez-Ortega, and Ana M. Gonzalez-Nogal. Silylated β-Enaminones as Precursors in the Regioselective Synthesis of Silyl Pyrazoles. *Tetrahedron* 62, (2006): 611–18. https://doi.org/10.1016/j.tet.2005.10.001.

Curran, Kevin J., Jeroen C. Verheijen, Joshua Kaplan, David J. Richard, Lourdes Toral-Barza, Irwin Hollander, Judy Lucas, Semiramis Ayral-Kaloustian, Ker Yu, and Arie. Zask. Pyrazolopyrimidines as Highly Potent and Selective, ATP-Competitive Inhibitors of the Mammalian Target of Rapamycin (MTOR): Optimization of the 1-Substituent. *Bioorganic & Medicinal Chemistry Letters* 20, (2010): 1440–44. https://doi.org/10.1016/j.bmcl.2009.12.086.

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Steffan, Robert J., Edward Matelan, Mark A. Ashwell, William J. Moore, William R. Solvibile, Eugene Trybulski, Christopher C. Chadwick, et al. Synthesis and Activity of Substituted 4-(Indazol-3-YI)Phenols as Pathway-Selective Estrogen Receptor Ligands Useful in the Treatment of Rheumatoid Arthritis. *Journal of Medicinal Chemistry* 47, (2004): 6435–38. https://doi.org/10.1021/jm049194+.

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the MSDS on request. **1-Ethylhydrazine hydrochloride** is manufactured, shipped according to standard practices, and intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

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