

## REFERENCES

- AIChE Spring National Meeting, Eight Annual Ethylene Producer Conference,  
February 27, 1996
- Burns, K. G., Ciarella, D. J., Rowe, C. T., and Sigmon, J. L. Chemicals increase ethylene plant efficiency. Hydrocarbon Processing, January 1991
- Dean, J. A. Lange 's Handbook of Chemistry. 14th ed., New York : McGraw Hill, 1992
- Ferraro, J. R., Basile, L. J. Fourier transform infrared spectroscopy application to chemical systems. Vol 4., New York : Academic Press, 1985
- Griffiths, P. R. Fourier transform infrared spectrometry, Chemical Analysis. Vol 83., New York : John Wiley & Sons, 1986
- Hatch, L. F. and Matar, S. Chemistry of petrochemical processes. Texas : Gulf Publishing Company, 1994
- Haynes, B. Qualitative Organic Analysis. 2nd ed., London : Macmillan and Company Limited, 1966
- Kniel, L., Winter, O., Stork, K. Ethylene : Keystone to the petrochemical industry. New York : M. Dekker, 1980
- Lin-Vein, D. and others. The handbook of infrared and raman characteristic frequencies of organic molecules. New York : Academic Press, 1991
- Martin, J. F. Reduce olefin plant fouling. Hydrocarbon processing. November 1988
- Patai, S. The chemistry of the carbonyl group. New York : Interscience Publisher, 1966

- Pouchert, C. J. The Aldrich library of infrared spectra. 3rd ed., Aldrich Chemical Company, 1988
- Sax, N. I. and Lewis, R. J. Hawley 's Condensed Chemical Dictionary. 11th ed., New York : Van Nostrand Reinhold Company, 1987
- Shriner, R. L., Fuson, R. C., Curtin, D. Y. The systematic identification of organic compounds. 5th ed., New York : John Wiley & Sons, 1964
- Siggia, S. Quantitative organic analysis via functional groups. 2nd ed. New York : John wiley & Sons, 1954
- Silverstein, R. M. Spectrometric identification of organic compounds. 5th ed. New York : John Wiley & Sons, 1991
- Zhou, X. and Gulari, E. Transient FTIR study of surface alkyl groups on Ru/SiO<sub>2</sub> . Langmuir, Vol 4, No. 6, 1988 : 1332-1340

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