

## 7.2. REFERENCIAS

- [1] ENARGAS – Normas Argentinas Mínimas de Seguridad para el Transporte y Distribución de Gas Natural y Otros, Gases por Cañerías N. A. G. 100, 1-374, 1993.
- [2] Guo, B., Ghalambor, A., “Handbook of Natural Gas Engineering”, Gulf Publishing Company, 2005.
- [3] Camuzzi Gas Pampeano, Comunicación personal, 2004.
- [4] Ripley D. I.; Goetzinger J.W., “Odorization Symposium”, Institute of Gas Technology, Chicago, paper 9-2, 1992.
- [5] <http://www.fuelcells.org>
- [6] <http://www.epa.gov/otaq/fuelcell>
- [7] Piña, J., Bucalá, V., Borio, D.O., "Influence of the Sulfur Poisoning on the Performance of a Primary Steam Reformer", International Journal of Chemical Reactor Engineering, Vol. 1, A11, 2003.
- [8] Robinson, C.D., “Effect of Heat Temperature upon Odorization”. Gas Age-Record 78, 671-72, 680, 1936.
- [9] Fraser, W. R., “The Odorization of Natural Gas for City Distribution”. A. G. A. Proceeding, 729-33, 1940.
- [10] Tarman, P. B., Linden, H. R., “Soil Adsorption of Odorant Compounds”, Institute of Gas Technology. Research bulletin, N° 33, 1961.
- [11] Little, A.D., “Development of new gas odorants”, GRI Contract Number 5010-352-0047, Report to GAS RESEARCH INSTITUTE, C-81780, 1978.
- [12] Chen, C.Y., Wu, S., “The influence of relative humidity on the adsorption of toluene by soils”, Chemosphere, 37(8), 1437-1444, 1998.
- [13] Kopac, T., Kaymakci, E., Kopac, M., “Dynamic adsorption of SO<sub>2</sub> on zeolite molecular sieves”, Chem . Eng. Comm, 164, 99-109, 1998.
- [14] Kopac, T., Kocabas, S., “Adsorption equilibrium and breakthrough analysis for sulfur dioxide adsorption on silica gel”, Chemical Engineering and Processing, 41, 223-230, 2002.
- [15] Wakita, H., Tachibana, Y., Hosaka, M., “Removal of dimethyl sulfide and t-butylmercaptan from city gas by adsorption on zeolitas”, Elsevier, Microporous and Mesoporous Materials 46, 237-247, 2001.
- [16] Gupta, A., Gaur, V., Verma, N., “Breakthrough analysis for adsorption of sulfur-dioxide over zeolitas”, Chemical Engineering and Processing, 43, 9-22, 2004.

- [17] Satokawa, S., Kobayashi, Y., Fujiki, H., "Adsorptive removal of dimethylsulfide and t-butylmercaptan from pipeline natural gas fuel on Ag zeolites under ambient conditions", *Applied Catalysis B: Environmental*, 56(1-2), 51-56, 2005.
- [18] Usher, M. J., "Odor Fade – Possible Causes and remedies", Elf Atochem North America, Inc., London, 1999.
- [19] Software ACD/CHEMSKETCH, "Simulador de estructuras químicas", Versión 4.55.
- [20] ISSN 0176 – 3490 DVGW: Unión Alemana de Gas y el Agua – Hauptstrasse 71-79. Eschborn/TS.1
- [21] Rodríguez Reinoso, F., "Fundamentos de Adsorción", III Curso-Taller Iberoamericano sobre Adsorbentes para la Protección Ambiental "Catalizadores y adsorbentes para el medio ambiente y calidad de vida". Red Temática V.F. "Adsorbentes para la protección Ambiental", 2003.
- [22] Suzuki, M., "Adsorption Engineering", Chemical Engineering Monographs-25, Elsevier, Tokio, 1990.
- [23] Simoes Dornellas de Barros, M.A., "Tecnología de los procesos de adsorción", III Curso-Taller Iberoamericano sobre Adsorbentes para la Protección Ambiental "Catalizadores y adsorbentes para el medio ambiente y calidad de vida". Red Temática V.F. "Adsorbentes para la protección Ambiental", 2003.
- [24] Perry, R.H., Manual del Ingeniero Químico, "Fluid and particle dynamics – Beds of Solids", 6-34, McGraw-Hill, 2001.
- [25] Manual del equipo cromatográfico ODOR on-line Axel Semrau GMBH & CO 45541.
- [26] ISO 6326-2, "Gas analysis - Determination of sulphur compounds in natural gas -- Part 2: Gas chromatographic method using an electrochemical detector for the determination of odoriferous sulphur compounds", 1981.
- [27] Eberhardt, A., López, E., Bucalá, V., Damiani, D.E., "Tertiary Butyl Mercaptan Adsorption in Soils. Determination of kinetic and transport parameters from experimental data", , *International Journal of Chemical Reactor Engineering*, Vol. 1: A42, 2003
- [28] Schneider, P., Smith, J.M., "Adsorption Rate Constant from Chromatography" *AICHE Journal*, 14, 762-771, 1968.
- [29] Schwarzenbach, R. P., Gschwend, P. M., Dieter, M., "Environmental organic chemistry", John Wiley & Sons, Inc. New Cork, 1993.
- [30] Eweis, J., Ergas, S. J., Chang, D. P. Y., Schroeder, E. D., "Bioremediation Principles", McGraw-Hill, New York, 1998.

- [31] Seoáñez Calvo, M., "Contaminación del suelo, estudios, tratamientos y gestión", Barcelona Mundi-Prensa, 1999.
- [32] Merino, J., Piña, J., Errazu, A. F., Bucalá, V., "Fundamental Study of Thermal Treatment of Soil", *Soils & Sediment Contamination*, ISSN 1532-0386, 12(3) 417-441, 2003.
- [33] Yong, R.N., Mohamed, A.M.O., Warkentin, B.P., "Principles of Contaminant Transport in Soils", Elsevier, Holanda, 1992.
- [34] Esteves, I.A.A.C., Lopes, M.S.S., Nunes, P.M.C., Mota, J.P.B., Adsorption of natural gas and biogas components on activated carbon, *Separation and Purification Technology*, 62-281-296, 2008.
- [35] Chiang, H-L., Tsai, J-H., Chang, D-H., Jendg, F-T., Difusión of hydrogen sulfide and methyl mercaptan onto microporous alkaline activated carbon, *Chemosphere*, 41, 1227-1232, 2000.
- [36] Prodromou, K.P., Pavlatou-Ve, A.S., "Changes in soil pH due to the storage of soils", *Soil Use and Management*, 14(3), 182-183, 2006.
- [37] Wild, P.J., Nyqvist, R.G., de Bruijn, F.A., Stobbe, E.R., "Removal of sulphur-containing odorants from fuel gases for fuel cell-based combined heat and power applications", *Journal of Power Sources*, , 159(2), 995-1004, 2006-
- [38] Cui, H., Turn, S.Q., Reese, M.A., "Removal of sulfur compounds from utility pipelined synthetic natural gas using modified activated carbons", *Catalysis Today*, en prensa disponible online, Mayo 2008.