

REFERENCES

- AIZPURU A, MALHAUTIER L, ROUX JC and FANLO JL (2001) Biofiltration of a Mixture of Volatile Organic Emissions, Air and Waste Management Association, 51, December 2001, 1662 1670.
- CAPCO (s.a.) Aid in the control of air pollution in South Africa, Chief Air Pollution Control Officer (CAPCO), Pretoria.
- **CARR G (2003)** Determination of molecular weight of petrol vapour sample, personal communication, Chemist: Langet Labs, Durban.
- CODE OF FEDERAL REGULATIONS (2001), 40 CFR Part 63: National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart R and Subpart XX, Title 40, Volume 9, 451-463, http://www.access.gpo.gov/nara/cfr/index.html [20 March 2002].
- COOL SORPTION (2001) Vapour Recovery Unit, Engen Operation and Maintenance Manual, Wentworth, Durban.
- **CSI (2002)** Fuel-Facs⁺®: Supply chain automation and information management systems for petroleum and other bulk distributors, Control Systems International[®] (CSI), http://www.fuelfacs.com/home.htm [1 August 2003].
- **DUNN RF AND EL-HALWAGI MM (1996)** Design of Cost-Effective VOC-Recovery Systems, *Tennesee Valley Authority publication*, United States of America.
- **EPA** (1995) Transportation and Marketing of Petroleum Liquids, Chapter 5: Petroleum Industry, Volume I, Fifth Edition, Compilation of Air Pollutant Emission Factors, AP-42, EPA.



- **EPA** (2003a) Volatility (RVP), Gasoline Fuels, EPA, http://www.epa.gov/otaq/volatility.htm [July 2003].
- **EPA (2003b)** Introduction to Laws and Regulations, Laws and Regulations, EPA, http://www.epa.gov/epahome/lawintro.htm [12 June 2003].
- FENGER J (1999) Urban Air Quality, Atmospheric Environment, 33, 4877-4900.
- **FRIEND JFC (2001)** Possible Solutions to the Challenges Facing Environmental Management in a First/Third World Developing Country. Paper presented at the 6th World Congress of Chemical Engineering, 23-27 September 2001. Melbourne, Australia.
- HADLEY PV, DEVOS F, ESTY W, GOMMEL PG, ISING U, LILIE RH, VERBEEK GPM AND WILLIAMS LJ (1978) Hydrocarbon Emissions from Gasoline Storage and Distribution Systems, Report nr. 4/78, CONCAWE, Den Haag.
- **HAMILTON J (2002)** Fuel Facs[†]® data, *personal communication*, Engineer: Liquid Automation Systems, Johannesburg.
- HANSEN MR (1996) Hydrocarbon vapour emission reduction by recovery, Paper presented at *Danish Days in Ukraine conference*, 5-9 February 1996. Kiev, Ukraine.
- INSTITUTE OF PETROLEUM (2002) Vapour Recovery Hazards Bulletin, April 2002, London.
- JACOB A (1991) Cut VOC's to beat new laws, Chemical Engineer, 12 December 1991, London.



- **JEFFERY K (1998)** Bulk Liquids Vapour Control, *Hazardous Cargo Bulletin*, IIR Publications, London.
- JO W AND SONG K (2001) Exposure to volatile organic compounds for individuals with occupations associated with potential exposure to motor vehicle exhaust and/or gasoline vapour emissions, The Science of the Total Environment, 269, 25-37.
- **KEMP P (2003)** Reid vapour pressure (RVP) values at Engen, Wentworth for 2002, *personal communication*, Distribution Engineer: Engen. 25 April 2003, Cape Town.
- KOJIMA M AND MAYORGA-ALBA EO (1998) Cleaner Transportation Fuels for Air Quality Management, Energy Issues, No. 13, July 1998, The World Bank, http://www.worldbank.org/html/fpd/energy/enls13.pdf [23 October 2002].
- LENTS JM AND NIKKILA RM (2000) South African Air Quality Related Findings and Recommendations, Refinery Managers Environmental Forum, http://www.rmef.co.za/home/server/air_quality/lents_report/lent_content.asp[16 Janaury 2003]].
- McCARTHY R (1999) Ultrasonic Gas Flowmeters, CGA Gas Measurement School publication, June 1999, London, http://www.gtionline.org/ref/mem ber/library/cga 1999/(14) mccarthy.pdf [4 August 2002].
- **MEY H (2003)** Sampling of petrol vapour, *personal communication*, Scientist: SCI Laboratories, Sasolburg.
- MORETTI EC AND MUKHOPADHYAY N (1993) VOC Control: Current Practices and Future Trends, *Chemical Engineering Progress*, July 1993, 89, 20-26.



- MUNN A AND KORNELIUS G (2002) Report on Overseas Visit, 19 April 01

 May 2002, Air Quality Reports, Refinery Managers Environmental

 Forum,http://www.rmef.co.za/home/server/air_quality/lents_report/roport_

 on_overseas_visit.asp [6 October 2002].
- OHLROGGE K, PEINEMANN KV, WIND J AND BEHLING RD (1990) The Separation of Hydrocarbon Vapors with Membranes, Separation Science and Technology, 25(13-15), 1375 1386.
- RUDDY EN AND CARROLL LA (1993) Select the Best VOC Control Strategy, Chemical Engineering Progress, July 1993, 89, 28-35.
- **RUHL MJ (1993)** Recovery VOCs via Adsorption on Activated Carbon, *Chemical Engineering Progress*, July 1993, 89, 37-43
- SA ACT (1965) Atmospheric Pollution Prevention Act (Act No 45 of 1965), Government Gazette, 32, 391-453.
- **SABS** (1995) *SABS* 299: *Specification for leaded petrol*, South Africa, http://www.asosh.org/Standards/dangerous_goods.htm [3 July 2003].
- **SABS (2001)** SABS 1598: Specification for unleaded petrol, South Africa, http://www.asosh.org/Standards/dangerous_goods.htm [3 July 2003].
- **SA DRAFT BILL (2003)** National Environmental Management: Air Quality Bill, *Government Gazette*, 458 (25289), 1 Augustus 2003, Cape Town.
- **SANGSTER A (1991)** Vapour Recovery from Petrol Distribution, *Petroleum Review*, March 1991, 45(530), 130-132, 134.
- UNECE (2002) Convention on Long-Range Transboundary Air Pollution,
 Protocol Concerning the Control of Emissions of Volatile Organic



Compounds, Environment and Human Settlements Division, http://www.unece.org/env//1rtap/vola h1.htm [4 October 2002].

YOUNG JW AND TUTTLE WN (1997) Reduction of hydrocarbon emissions from air through pressure swing regeneration of activated carbon. Paper presented at the AIChE Conference, 1997, http://www.vaporrecovery.comrheps.html [18 October 2001].

ZERBONIA RA, BROCKMANN CM, PETERSON PR AND HOUSLEY D (2001)

Carbon Bed Fires and the Use of Carbon Canisters for Air Emission

Control on Fixed-Roof Tanks, Journal of the Air and Waste Management

Association, 51 (12), December 2001, 1617 – 1627.