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List of Selected Publications:

Gill, B. K.; Rattan, V. K.; Kapoor, S. Isobaric Vapor–Liquid Equilibrium of Binary Mixtures of Vinyl Acetate and Ethyl Formate with Cumene at 97.3 kPa. *J. Chem. Eng. Data,* **2008**, *53* (1), 145–148.

Gill, B. K.; Rattan, V. K.; Kapoor, S. Experimental Isobaric Vapor–Liquid Equilibrium Data for Binary Mixtures of Cyclic Ethers with (1-Methylethyl)benzene. *J. Chem. Eng. Data,* **2008**, *53* (9), 2041–2043.

Kapoor, S.; Gill, B. K.; Rattan, V. K. Isobaric Vapor–Liquid Equilibrium of Binary Mixture of Methyl Acetate with Isopropylbenzene at 97.3 kPa. *Int. J. Chem. and Biomolecular Engg*. **Spring 2008**, 1;2, 103 – 106.

Rattan, V. K.; Gill, B. K.; Kapoor, S. Isobaric Vapor–Liquid Equilibrium Data for Binary Mixture of 2-Methyltetrahydrofuran and Cumene. *Int. J. Chem. and Biomolecular Engg*. **Spring 2008**, 1;2, 107 – 110.

Gill, B. K.; Rattan, V. K.; Kapoor, S. Vapor–Liquid Equilibrium Data for *N*-methylacetamide and *N*,*N*-dimethylacetamide with Cumene at 97.3 kPa. *J. Chem. Eng. Data*, **2009**, 54(4), 1175-1178.

Kapoor, S.; Kansal, S. K.; Gill, B. K.; Sharma, A.; Arora, S. Isobaric Vapor–Liquid Equilibria of Mesitylene + 1-Heptanol and Mesitylene + 1-Octanol at 97.3 kPa. *Int. J. Chem. and Biomolecular Engg*. **2009**, 2;3, 125 – 130.

Gill, B. K.; Rattan, V. K.; Kapoor, S. Isobaric Vapor–Liquid Equilibrium Data for Binary Mixtures of *n*-Butylamine and Triethylamine with Cumene at 97.3 kPa. *Int. J. Chem. and Biomolecular Engg*. **2010**, 3;3, 142 – 146.

Highlights of Research Work:

Experimental determination of Vapor-Liquid Equilibrium for binary mixtures with one of the components as a C8/C9 hydrocarbon had been carried out as part of the research work. VLE data is useful for the design of distillation columns and the selection of solvents. Due to complex separation problems arising from numerous new industrial processes, the experimental VLE determination becomes more important. Also, the experimental data is required for updating and improving the data bank used to fit the model parameters of various theoretical models.