

TEACHER PROFILE

NAME : **Dr. Sivakumar Kasibhatta**
DESIGNATION & ADDRESS : **Associate Professor**
Department of Chemistry
Sri Venkateswara Arts College, TTD.
Tirupati - 517 502, A. P., INDIA
Phone: +91-877-2264602
Mobile: +91-9290080843
E-mail: sivakumarkasi64@gmail.com
DATE OF BIRTH : **09-07-1964**
CITIZENSHIP : **INDIAN**



ACADEMIC QUALIFICATIONS:

- **Ph.D.**, Physical Chemistry, Thesis entitled “Thermodynamics Properties of Ternary Organic Liquid Mixtures” Sri Venkateswara University, Tirupati.
- **M.Phil.** Physical Chemistry, Sri Venkateswara University, Tirupati.
- **M.Sc.** Physical Chemistry, Sri Venkateswara University, Tirupati.
- **B.Sc.** Mathematics, Physics and Chemistry, Sri Venkateswara University, Tirupati.

ACADEMIC POSITIONS:

Assistant Professor	S. V. Arts College (TTD), Department of Chemistry	04-06-2004 to 2016
Associate Professor	S. V. Arts College (TTD), Department of Chemistry	2016 to till date

Research interests:

- Ionic Liquids; Chemical Thermodynamics; Fluid Phase Equilibria; Structure-Property correlations
- Theoretical and Analysis and experimental determination of trace metals in industrial effects and their impact on environment and pesticide residue in environmental samples.

Research project

One UGC project was on-going: Project amount: about Rs. 9.50 Lakh

Research guidance:

- ❖ Ph.D. Completed: 2
- ❖ M.Phil Completed: 1
- ❖ Ph.D. On-going: 2
- ❖ M.Sc. Projects completed: 12
- ❖ M.Sc. Projects on-going: 12

Awards & Recognitions:

Member of Royal Society of Chemistry (MRSC) (UK)

Review Editor (August 2020 – till date) of Frontiers

Chemistry. **Member** - The Indian Thermodynamics Society, Amritsar.

Delivered **3 Invited Talks.**

Reviewer of more than 11 scientific journals from various publishers

Evaluated more than 01 **foreign thesis**

Degree First year Text Book Writer- APSCHE, Govt. of Andhra Pradesh.

List of Publications:

1. Excess volume, speed of sound and isentropic compressibility data of ternary mixtures containing N- methylcyclohexylamine, *p*-xylene and (C₃-C₅) 1-alkanols

Authors: Ch. Bharath Kumar, P.Bhanuprakash, C. NarasimhaRao, R.L.Gardas, **K.Sivakumar**

Chemical Data Collections, 2021, 31, 100610.

2. Excess thermodynamic properties and FTIR studies of binary of 1, 3-dichlorobenzene with alkyl acetates (C₁-C₅) at different temperatures

Authors: R Raju, S Ravikumar, R Gerald Arokiaraj, S Karlapudi, **K Sivakumar**, V Pandiyan

Chemical Data Collections, 2020, 29, 2405-8300.

3. Insights into non-ideal behaviour of benzyl alcohol with (C₂-C₄) carboxylic acids through volumetric, ultrasonic and ATR-FTIR spectroscopic studies

Authors: P Bhanuprakash, Ramesh L Gardas, R Prathibha, **K Sivakumar**, NVV Jyothi

Physics and Chemistry of Liquids, 2021, 59, 1-23.

4. Effect of temperature, nature of anion and alkyl chain length on the volumetric and acoustic properties of ionic liquid [C₄C₁im][MeSO₄] with alkyl nitriles

Authors: P Bhanuprakash, R Prathibha, Ramesh L Gardas, **K Sivakumar**, NVV Jyothi

Journal of Molecular Liquids, 2020, 302, 112507.

5. Excess thermodynamic properties of intermolecular interactions in binary liquid mixtures of furfural with alkyl acetates (C₁-C₅) at different temperatures

Authors: R.Rajalakshmi, S.Ravikumar, **K.Sivakumar**, V.Pandiyan

Chemical Data Collections, 2019, 24, 100299.

6. Physicochemical properties and FT-IR spectral studies of binary liquid mixtures containing anisole with isomeric cresols

Authors: O. Audisshaiah, M. Raveendra , L. Kiran Babu , **K. Sivakumar**, Y.V. Rami Reddy

Physics and Chemistry of Liquids, 2019 (In Press)

7. Thermodynamic and FT-IR study on molecular interactions between ethyl lactate with alkyl amines at different temperatures

Authors: A. Shakila, S. Ravikumar, M. Raveendra, **K. Sivakumar**, R. Raju, V. Pandiyan

Physics and Chemistry of Liquids, 2019, 57, 117-136

8. Effect of temperature and position of OH group in isomeric butanediols in intermolecular interactions with 2-chloroaniline: A thermodynamic, DFT and molecular dynamics approach

Authors: D. NegussaKenie, M.Chandra Sekhar, M.Raveendra, **K.Sivakumar**

Journal of Molecular Liquids, 2019, 297, 111796.

9. Role of chain length in molecular interactions between Monoethanolamine and 2-Alkoxyalkanols at various Temperatures

Authors: R Rajalakshmi, S Ravikumar, **K Sivakumar**, M Raveendra, V Pandiyan

Chemical Data Collections, 2019, 100202 (In Press).

10. Thermodynamic and spectroscopic study of molecular interactions between ethanol and isomeric cresols

Authors: M Raveendra, P Bhanuprakash, YS Rao, **K Sivakumar**, KD Reddy

The Journal of Chemical Thermodynamics, 2019, 132, 93-104.

11. Study of excess thermodynamic properties of binary systems containing cinnamaldehyde with alcohols supported by ATR-FTIR spectral studies

Authors: R Prathibha, P Bhanuprakash, NVV Jyothi, **K Sivakumar**

Chemical Data Collections, 2019, 19, 100184.

12. Molecular interaction studies based on transport, thermodynamic and excess properties of aniline and alkanol mixtures at varying temperatures,

Authors: MS Sandhya, P Biswas, NR Vinay, **K Sivakumar**, R Dey

Journal of Molecular Liquids, 2019, 278, 219-225.

13. Thermodynamic and FT-IR study on molecular interactions between ethyl lactate with alkyl amines at different temperatures

Authors: A Shakila, S Ravikumar, M Raveendra, **K Sivakumar**, R Raju, V Pandiyan

Physics and Chemistry of Liquids, 2019, 57, 117-136.

14. Effect of Arrhenius energy factor on molecular interactions of binary liquid mixtures

Authors: P Vasundhara, M Raveendra, C Narasimharao, NV Reddy, **K Sivakumar**, P Venkateswarlu

Journal of Thermal Analysis and Calorimetry, 2019, 135, 2541-2564.

15. Excess thermodynamic study of binary mixtures containing 1, 2-dichlorobenzene with aliphatic esters over the entire miscibility range ($0 < x < 1$) at temperature 303.15–318.15 K

Authors: R Raju, S Ravikumar, **K Sivakumar**, M Raveendra, V Pandiyan

Chemical Data Collections, 2018, 17, 41-67.

- 16.** Temperature and composition dependence of the volumetric and acoustic properties of ionic liquid [emim][HSO₄] with polar protic and aprotic co-solvents

Authors: P Bhanuprakash, NVV Jyothi, C Narasimharao, M Raveendra, **K Sivakumar**

The Journal of Chemical Thermodynamics, 2018, 122, 113-124.

- 17.** Hydrogen Bonding Interactions of m-Chlorotoluene with 1-Alkanol Analyzed by Thermodynamic, Fourier Transform Infrared Spectroscopy, Density Functional Theory, and Natural Bond Orbital **Authors:** S Karlapudi, Ch Prasad, LO Olasunkanmi, S Singh, I

Bahadur, **K Sivakumar**, EE Ebenso *ACS Omega* 2018, 3, 4679–4687.

- 18.** Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, ¹H NMR spectroscopic and DFT method

Authors: M Raveendra, M Chandrasekhar, K Chandrasekhar Reddy, A Venkatesulu, **K Sivakumar**, K Dayananda Reddy

Fluid Phase Equilibria 2018, 462, 85-99.

- 19.** Elucidation of molecular interactions in the mixtures of benzylalcohol with (C₂–C₄) alkylacetates through volumetric, ultrasonic, theoretical and ATR-FTIR spectroscopic studies at T= (298.15, 303.15 K, 308.15 and 313.15) K

Authors: P Bhanuprakash, NVV Jyothi, C Narasimharao, M Raveendra, **K Sivakumar**

Journal of Molecular Liquids 2017, 234, 49-63.

- 20.** Thermodynamics of amine+ ketone mixtures: Volumetric, speed of sound data and viscosity at 303.15 K and 308.15 K for the binary mixtures of N, N-diethylaniline+ aliphatic ketones (C₃-C₅) + 4-methyl-2- pentanone

Authors: M Gowrisankar, P Venkateswarlu, **K Sivakumar**, S Sivarambabu

Arabian Journal of Chemistry, 2017, 10, S2625-S2636.

21. Equilibrium, Kinetic and Thermodynamic Studies on Biosorption of Ni (II) and Cu (II) by using *Nyctanthes arbor-tristis* leaf Powder

Authors: K Subbarayudu, R Prathibha, C Narasimha Rao, **K Sivakumar**, P Venkateswarlu

Indian Journal of Advances in Chemical Science, 2017, 5, 81-85

22. Adsorption of lead and zinc on *Curcuma longa* leaf powder from aqueous solutions **Authors:**

K Subbarayudu, R Prathibha, C Narasimha Rao, **K Sivakumar**, P Venkateswarlu *Indian*

Journal of Advances in Chemical Science, 2017, 5, 76-80

23. Effect of temperature and alkyl chain length on molecular interactions in the binary mixtures of 1-ethyl- 3-methylimidazolium methylsulphate with 1-alkanols (C3–C6)

Authors: MS Sandhya, CN Rao, **K Sivakumar**, P Bhanuprakash, P Venkateswarlu

Journal of Molecular Liquids, 2016, 222, 981-987

24. Evaluation of molecular interactions by volumetric and acoustic studies in binary mixtures of the ionic liquid [EMIM][MeSO₄] with ethanoic and propanoic acid at different temperatures

Authors: P Bhanuprakash, C Narasimha Rao, **K Sivakumar**

Journal of Molecular Liquids, 2016, 219, 79-87.

25. Study of molecular interactions in ternary non electrolyte solutions

Authors: C Narasimha Rao, L Venkatramana, K Janardhanaiah, **K Sivakumar**

Journal of Molecular Liquids 2016, 216, 126-131.

26. FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols

Authors: M Raveendra, C Narasimharao, L Venkatramana, **K Sivakumar**, K Dayananda Reddy

The Journal of Chemical Thermodynamics, 2016, 92, 97-107.

27. Elucidation of hydrogen bonding formation by a computational, FT-IR spectroscopic and theoretical study between benzyl alcohol and isomeric cresols

Authors: M Raveendra, M Chandrasekhar, C Narasimharao, L Venkatramanna, **K Sivakumar**, K Dayananda Reddy

RSC Advances 2016, 6, 27335-27348.

28. Excess thermodynamic and spectroscopic study of ternary n

Authors: CN Rao, L Venkataramana, CL Prabhavathi, **K Sivakumar**, RL Gardas

Journal of Thermal Analysis and Calorimetry, 2016, 123, 881-890.

29. Volumetric, acoustic and FT-IR spectroscopic study on ternary and constituent binary mixtures containing N-methylcyclohexylamine, nitrobenzene and 1-alkanols at 303.15 K

Authors: L Venkatramana, CN Rao, **K Sivakumar**, RL Gardas

Journal of Molecular Liquids 2015, 209, 578-585

30. Effect of various substituents on benzene ring and their impact on volumetric, acoustic and transport properties of binary liquid mixtures with dimethylacetamide

Authors: V Syamala, L Venkatramana, CN Rao, **K Sivakumar**, P Venkateswarlu, R.L. Gardas

Fluid Phase Equilibria 2015, 397, 68-80

31. FT-IR study of excess thermodynamic properties of binary liquid mixtures of p-xylene with 1-alkanols at 303.15 K

Authors: V Losetty, NR Chittluri, RL Gardas, **K Sivakumar**

Journal of molecular liquids 2015, 207, 171-176

32. Spectrophotometric determination of selegiline hydrochloride in bulk and in pharmaceutical formulations

Authors: A Narayana, CN Rao, **K Sivakumar**

Journal of the Indian chemical society 2015, 92, 589-592

33. Thermodynamic and transport properties of binary liquid mixtures of cyclohexanol with isomeric chlorotoluenes

Authors: C Narasimha Rao, S Ramanaiah, A Chowdappa, **K Sivakumar**

Physics and Chemistry of Liquids 2015, 53, 264-274

34. Excess volume and isentropic compressibility study of

Authors: L Venkatramana, RL Gardas, C NarasimhaRao, **K Sivakumar**

Physics and Chemistry of Liquids 2015, 53, 207-220

35. Density, Refractive Index, Speed of Sound and Computational Studies of Intermolecular Interactions in Binary Mixtures of 2-Chloroaniline with Butanols (1-Butanol, 2-Butanol) at T = (303.15–318.15) K **Authors:** MC Sekhar, TM Mohan, TV Krishna, A Venkatesulu, **K**

Sivakumar

Journal of Solution Chemistry 2015, 44, 237-263.

36. Thermodynamic properties of binary mixtures of aniline with halogenated aromatic hydrocarbons: Measurements and correlations

Authors: P Vasundhara, CN Rao, L Venkatramana, **K Sivakumar**, P Venkateswarlu, R.L. Gardas

Journal of Molecular Liquids 2015, 202, 158-164.

37. A Study of the Excess Properties of Aliphatic Chlorinated Compounds with Benzylalcohol at Various Temperatures

Authors: L Venkatramana, RL Gardas, CN Rao, **K Sivakumar**, KD Reddy

Journal of Solution Chemistry 2015, 44, 327-359

38. Spectrophotometric Determination of Bromhexine Using Charge Transfer Complex Reaction

Authors: A Narayana, CN Rao, **K Sivakumar**

Indian Journal of Advances in Chemical Science 2015, 3, 128-132

39. Volumetric, Speed of Sound Data and Viscosity at (303.15 & 308.15) K for the binary mixtures of N, N-dimethylaniline + aliphatic ketones (C3-C5), + 4-methyl-2-

pentanone,+acetophenone, +

cyclicketones

Authors: M. Gowrisankar, P. Venkateswarlu, **K. Sivakumar**, S. Sivarambabu,

Journal of Industrial and Engineering Chemistry 2014, 20, 405-418.

40. Thermodynamic properties of non-electrolyte solutions

Authors: K. Sreenivasulu, V. Govinda, P. Venkateswarlu, **K. Sivakumar**,

Journal of Thermal Analysis and Calorimetry 2014, 115, 1805-1811

41. Molecular interactions between amine and cyclic ketones at different temperatures **Authors:**

M. Gowrisankar, P. Venkateswarlu, **K. Sivakumar**, S. Sivarambabu, *Journal of Thermal Analysis and Calorimetry* 2014, 115, 1821-1827.

42. Thermodynamic properties of binary mixtures containing 1-alkanols

Authors: L. Venkatramana, K. Sreenivasulu, **K. Sivakumar**, K. Dayananda Reddy,

Journal of Thermal Analysis and Calorimetry 2014, 115, 1829-1834.

43. Thermodynamics of Binary mixtures: The effect of substituents in aromatics on their excess properties with benzylalcohol

Authors: L. Venkatramana, R.L. Gardas, **K. Sivakumar**, K. Dayananda Reddy,

Fluid Phase Equilibria 2014, 367, 7-21.

44. Effect of chain length of alcohol on thermodynamic properties of their binary mixtures with benzylalcohol

Authors: L. Venkatramana, **K. Sivakumar**, R.L. Gardas, K. Dayananda Reddy,

Thermochimica Acta 2014, 581, 123-132.

45. Densities, viscosities and speeds of sound of binary mixtures of ethyl benzoate with toluene, and isomeric chlorotoluenes at different temperatures

Authors: D Vijayalakshmi, CN Rao, M Gowrisankar, **K. Sivakumar**, P Venkateswarlu

Journal of Molecular Liquids 2014, 197, 272-286

46. Excess Thermodynamic Properties of Ternary Mixtures of N-Methylcyclohexylamine and Toluene with 1-Alcohols

Authors: L Venkatramana, CN Rao, **K. Sivakumar**, RL Gardas

Bulletin of the Chemical Society of Japan 2014, 87 (11), 1265-1272

47. Excess thermodynamic properties and FT-IR spectroscopic study of binary liquid mixtures of dichloro and trichlorobenzenes with 1-nonanol at T=(298.15, 303.15 and 308.15) K

Authors: S Karlapudi, RL Gardas, P Venkateswarlu, **K. Sivakumar**

Journal of Molecular Liquids 2014, 194, 227-233

48. Spectrophotometric determination of esmolol hydrochloride using analytical reagents

Authors: A Narayana, CN Rao, CN Rao, **K. Sivakumar**

Indian Journal of Advances in Chemical Science 2014, 2 (4), 289-293

49. Ultrasonic studies on molecular interactions in binary mixtures of N- methyl aniline with methyl isobutylketone, + 3-pentanone, + cycloalkanones at 303.15 K

Authors: Gowrisankar. M, Venkateswarlu P, **K. Sivakumar**, Sivarambabu S.

Journal of Solution Chemistry 2013, 42, 916-935.

50. Density, ultrasonic velocity, viscosity and their excess parameters of the binary mixtures of N,N- dimethylaniline with 1- Alkanols (C3-C5), +2-Alkanols (C3-C4), + 2-methyl-1-propanol, + 2-methyl- 2-propanol at 303.15 K

Authors: M. Gowrisankar, P. Venkateswarlu, **K. Sivakumar**, S. Sivarambabu,

Korean Journal of Chemical Engineering 2013, 30, 1131-1141.

51. FT-IR studies on excess thermodynamic properties of binary liquid mixtures o-chlorotoluene with 1- propanol, 1-butanol, 1-pentanol, 1-hexanol and 1-heptanol at different temperatures

Authors: S Karlapudi, RL Gardas, **K Sivakumar**

The Journal of Chemical Thermodynamics 2013, 67, 203-209

52. Study on solution properties of some industrially important solvents with an aromatic alcohol

Authors: L Venkatramana, **K. Sivakumar**, V Govinda, KD Reddy

Journal of Molecular Liquids 2013, 186, 163-170

53. Preconcentration of Cu (II) and Ni (II) ions in edible fish organs by solid phase extraction using triton X-100 resin

Authors: R Kishore Kumar, **K. Sivakumar**, NVV Jyothi, J Rajasekhar, P Venkateswarlu

Journal of analytical chemistry 2013, 68, 403-408.

54. Molecular interactions in non-electrolyte binary liquid mixtures of cyclohexanol with 2-nitrotoluene and 3-nitrotoluene at four different temperatures

Authors: A Chowdappa, CN Rao, S Ramanaiah, R Umapathi, V Govinda, **K Sivakumar**, P Venkateswarlu

Journal of Chemical and Pharmaceutical Research 2013, 5 (3), 15-18.

55. Role of substituent on benzene ring and their important on thermodynamic Properties.

Authors: L.Venkatramana, K.Sreenivasulu, **K.Sivakumar**, K. Dayananda Reddy,

International Journal of Scientific & Engineering Research, 2013, 4, 1795-1823.

56. Thermodynamics of amine + Ketone mixtures 3 Volumetric, speed of sound data and viscosity at (303.15 and 308.15 K) for the binary mixtures of N, N- dimethylaniline + propiophenone, + p- methylacetophenone, + p- chloroacetophenone.

Authors: M. Gowrisankar, P. Venkateswarlu, **K. Sivakumar**, S. Sivarambabu,

Journal of Molecular Liquids 2012, 173, 172-179.

57. Excess volumes, speeds of sound, isentropic compressibilities and viscosities of binary mixtures of N- Ethyl Aniline with some Aromatic ketones at 303.15 K

Authors: M. Gowrisankar, P. Venkateswarlu, **K. Sivakumar**, S. Sivarambabu

Bulletin of the Korean Chemical Society 2012, 33, 1686-1692.

58. Densities and ultrasonic studies for binary mixtures of tetrahydrofuran with chlorobenzenes, chlorotoluenes and nitrotoluenes at 298.15 K

Authors: P. Madhusudhana Reddy, **K. Sivakumar**, P. Venkatesu,

Fluid Phase Equilibria 2011, 310, 74-81.

59. Speed of sound, isentropic compressibilities and viscosities of ternary non-electrolyte solutions at

303.15 K

Authors: V Syamala, DR Sekhar, **K. Sivakumar**, P Venkateswarlu

Physics and Chemistry of Liquids 2010, 48 (2), 171-182

60. Volumetric behavior of ternary organic liquid mixtures containing dimethylsulphoxide at 303.15K,

Authors: V. Syamala, **K. Sivakumar** and P. Venkateswarlu

Journal of Molecular Liquids 2007, 136, 29-34.

61. Volumetric, Ultrasonic and Viscosity study of Dimethylformamide with chloro and nitro substituted aromatic hydro carbons

Authors: V. Syamala, D. Rajasekhar, **K. Sivakumar** and P. Venkateswarlu,

Chinese Journal of Chemistry, 2007, 25, 32—43

62. Volumetric, ultrasonic and viscometric studies of binary mixtures of dimethyl sulphoxide with chloro and nitro substituted aromatic hydrocarbons at T = 303.15 K

Authors: V.Syamala, **K. Sivakumar** and P. Venkateswarlu

Journal of Chemical Thermodynamics 2006, 38, 1553-1562.

63. Excess molar volumes of ternary mixtures of 1,3 Dichlorobenzene and Methyl ethyl ketone with 1- alkanols at 303.15K

Authors: Jalari Rajasekhar and **K. Sivakumar**

Fluid phase Equilibria 2006, 245, 149-154.

64. Molecular interactions in ternary organic Liquid mixtures

Authors: K. Prasad, **K. Sivakumar**, G. Prabhakar, P. Venkateswarlu

Journal of Molecular Liquids. 2006, 123, 51-55.

65. Volumetric and ultrasonic study of acetophenone with dichloro and trichlorobenzenes at 303.15 K

Authors: V. Syamala, P. Venkateswarlu, G. Prabhakar and **K. Sivakumar**

Physics and Chemistry of Liquids 2006, 44, 127-137.

66. Excess Volumes, Speeds of Sound, Isentropic Compressibilities, and Viscosities of Binary Mixtures of Acetophenone with Chlorotoluenes and Nitrotoluenes at 303.15 K

Authors: V. Syamala, **K. Sivakumar** and P. Venkateswarlu

Journal of Chemical Engineering Data. 2006, 51, 928-934.

67. Volumetric behavior of binary liquid mixtures of dimethylsulphoxide with substituted benzenes at

303.15 K

Authors: M. Radhamma, **K. Sivakumar** and M.V.Prabhakar Rao

Physics and Chemistry of Liquids 2004, 42, 597-602.

68. Excess volumes of Ternary mixtures containing N-methylcyclohexylamine, benzene with 1-alkanols at 303.15K

Authors: C.L.Prabhavathi, **K.Sivakumar**, P. Venkateswarlu and G.K.Raman

Physics and Chemistry of Liquids 2001, 39, 675-681.

69. Excess volumes of Binary Mixtures of Benzene with 1-alkanols at 303.15K,

Authors: **K.Sivakumar** and N. Venugopal Reddy

Physics and Chemistry of Liquids 2001, 39, 117-123.

70. Ultrasonic Studies in binary mixtures of n-methylcyclohexylamine with benzene and Substituted benzenes at 303.15K

Authors: C.L.Prabhavathi, **K.Sivakumar**, P. Venkateswarlu and G.K.Raman

Physics and Chemistry of Liquids 2000, 38, 705-712.

71. C.L.Prabhavathi, **K.Sivakumar**, P. Venkateswarlu and G.K.Raman, Excess molar Volumes of binary mixtures of N-methylcyclohexylamine with benzene and substituted benzenes at 303.15K

Authors: C.L.Prabhavathi, **K.Sivakumar**, P. Venkateswarlu and G.K.Raman

Indian J. Chem 38A(1999) 934.

72. Sound Velocities and isentropic compressibilities of binary mixtures of 1,1,1-Trichloroethane with ketones and esters at 303.15 K

Authors: **K.Sivakumar** and P.R.Naidu

Physics and Chemistry of Liquids 1998, 35, 209-221.

73. Excess Molar Volumes of binary mixtures 1,1,1-trichloroethane with ketones and esters at 303.15K

Authors: **K. Sivakumar** and P.R.Naidu

Fluid Phase Equilibria 1997, 127, 173-180.

74. Speed of sound and isentropic compressibilities of ternary mixtures containing p-chlorotoluene, Hexane and 1-alcohols at 303.15 K

Authors: **K. Sivakumar**, Puligundla R. Naidu

Journal of Chemical Engineering Data 1994, 39, 5-7.

75. Molar excess volumes of ternary mixtures of non electrolyte solutions at 303.15 K **Authors:** G. Subramanya Sastry, U. Srinivasulu, **K.Sivakumar** and P.R.Naidu *Physics and Chemistry of Liquids* 1994, 28, 35-40.

76. Excess volumes of ternary mixtures of containing p-chlorotoluene and octane with 1-alkanols at 303.15K

Authors: **K. Sivakumar**, Puligundla R. Naidu ,William E. Acree Jr

Journal of Chemical Engineering Data 1994, 39, 2-4.

77. Ultrasonic studies in ternary mixture containing p-chlorotoluene ,n-heptane with 1-alkanols at 303.15 K

Authors: **K.Sivakumar** and P.R.Naidu

Acoustic letters 1994, 17, 93.

78. Ultrasonic studies of binary mixtures of p-chlorotoluene with 1- alkanols at 303.15 K

Authors: **K.Sivakumar** and P.R.Naidu

Physics and Chemistry of Liquids 1993, 26, 85-91.

79. Excess volumes of binary mixtures of p- chlorotoluene with 1- alkanols (C₃-C₇) and ternary mixtures with n-hexane and 1-pentanol, 1-hexanol, or 1-heptanol at 303.15 K

Authors: K.Sivakumar, Puligundla R. Naidu

Journal of Chemical Engineering Data 1993, 38, 156-159.

List of Books Published:

1. Role of Ionic Liquids in Food and Bioproduct Industries

Authors: K.Sivakumar

Springer, Cham 2020, 353-390.

2. Alcohol Fuels - Current Technologies and Future Prospect: Alcohol Fuels as an Alternative Fuels - Bringing New Heights in Sustainability

Authors: K.Sivakumar

Intech Open, 2019, 1-12.

Conferences and workshops attended:

1. **8th National conference on Thermodynamics of chemical, biological and environmental processes**, Department of Applied Chemistry, B.B.A. University, Lucknow, India, November 25-26, (2013), (**Oral presentation**).

2. **7th National conference on Thermodynamics of chemical, biological and environmental systems**,

Department of Chemistry, S.V. University, Tirupati, India, December 10-12, (2012), (**Oral presentation**).

3. **National conference on Indian council of chemists**, Department of Chemistry, Saurashtra University, Rajkot, India, December 26-28, (2012), (**Oral presentation**).

4. **80th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes**,

Department of Chemistry, SSBN Degree & P.G. College, Anantapur, India, November 5-10, (2012).

5. **6th National Conference on Thermodynamics of Chemical and Biological Systems (NCTCBS-2011)**, Department of Chemistry, Maharshi Dayanand University, Rohtak, India, November 2-4, (2011), (**Oral presentation**).

6. **National seminar on the promise of green chemistry**, Department of Chemistry, Andhra Loyola College (Autonomous), Vijayawada, India, November 16-17, (2011).

Declaration

All the details furnished above are true and correct to the best of my knowledge.

Place: Tirupati, India

(Sivakumar Kasibhatta)

