

JOURNAL PUBLICATIONS

Solubility and extraction studies on diamylhydrogen phosphonate in supercritical carbon dioxide

B. Sivaramakrishna , M. Darshana , P. Rajani , K.C. Pitchaiah , G. Chandrasekhar , V.K. Madhavan Kutty , G. Srinivasa Rao , C.V.S.Brahammanada Rao , N. Sivaraman

article Journal of Supercritical fluids, **Volume** 207, **Year** 2024, **Pages** 106209
DOI:<https://doi.org/10.1016/j.supflu.2024.106209>

A new semi-empirical model for correlation of solubility of ligands in supercritical carbon dioxide

K. Subashree · R. Shruti Krishna · K. C. Pitchaiah · Rahul Kumar · G. Chandrasekhar · A. Suresh · N. Sivaraman

article chemical papers, **Year** 2024
DOI:<https://doi.org/10.1007/s11696-024-03326-4>

Solubility Modeling of Some Chlorophenols in Supercritical Carbon Dioxide

Garlapati Mahesh; garlapati chandrasekhar

article Fine Chemical Engineering, **Volume** 5, **Year** 2024, **Pages** 49-59.
DOI:[10.37256/fce.512024](https://doi.org/10.37256/fce.512024)

Thermodynamic Modeling of Solubility of Some Antibiotics in Supercritical Carbon Dioxide Using Simplified Equation of State Approach

journal-article International Journal of Thermodynamics, **Year** 2024
DOI:[10.5541/ijot.1338341](https://doi.org/10.5541/ijot.1338341)

A Simplified Cubic Equation of State Approach to Model the Solubility of Solids in Supercritical Carbon Dioxide

journal-article Engineering Science & Technology, **Year** 2024

Studies on solubility measurement of codeine phosphate (pain reliever drug) in supercritical carbon dioxide and modeling

Gholamhossein Sodeifian ., Chandrasekhar Garlapati ., Maryam Arbab Nooshabadi ., Fariba Razmimanesh ., Armin Roshanghias .,

Article Scientific Reports, **Volume** 13, **Year** 2023

[DOI:10.1038/s41598-023-48234-x](https://doi.org/10.1038/s41598-023-48234-x)

Experimental and modeling of solubility of sitagliptin phosphate, in supercritical carbon dioxide: proposing a new association model

Nedasadat Saadati Ardestani ., Seyed Ali Sajadian ., Nadia Esfandiari ., Adrián Rojas ., Chandrasekhar Garlapati .,

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[DOI:10.1038/s41598-023-44787-z](https://doi.org/10.1038/s41598-023-44787-z)



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Solubility measurement of verapamil for the preparation of developed nanomedicines using supercritical fluid

Nadia Esfandiari ., Nedasadat Saadati Ardestani ., Ratna Surya Alwi ., Adrián Rojas ., Chandrasekhar Garlapati ., Seyed Ali Sajadian .,

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Solubility measurement and modeling of hydroxychloroquine sulfate (antimalarial medication) in supercritical carbon dioxide

Gholamhossein Sodeifian ., Chandrasekhar Garlapati ., Maryam Arbab Nooshabadi ., Fariba Razmimanesh ., Amirmuhammad Tabibzadeh .,

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Modelling of Solubility of Some Parabens in Supercritical Carbon Dioxide and New Correlations

Garlapati Mahesh ., Chandrasekhar Garlapati .,

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[DOI:10.1038/s41598-022-12769-2](https://doi.org/10.1038/s41598-022-12769-2)



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A Simple Model to Correlate Solubility of Thermolabile Solids in Supercritical Fluids

N. Anitha ., G. Chandrasekhar .,

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Solubility studies on 2-hydroxyisobutyric acid in supercritical carbon dioxide: Solubility evaluation and application to actinide extraction

J. Deepitha ., K.C. Pitchaiah ., G. Chandrasekhar ., N. Sivaraman .,

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Solubility of pyridine-2,6-dicarboxylic acid in supercritical carbon dioxide and its application for removal of lead and nickel in simulated matrices

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