



Content

- 1. Preface for the ACS-JCED Special Issue on Gas Hydrates in Honor of E. Dendy Sloan's 70th Birthday**
Carolyn A. Koh, FRSC
Journal of Chemical & Engineering Data **2015** 60 (2), 213-213
DOI: 10.1021/je501027v
- 2. On E.D. Sloan's 70th birthday**
Joan Henri van der Waals
Journal of Chemical & Engineering Data **2015** 60 (2), 214-214
DOI: 10.1021/je5008058
- 3. Anthony Robert Holmes Goodwin (1961–2014)**
William Wakeham and J. P. Martin Trusler
Journal of Chemical & Engineering Data **2015** 60 (2), 215-216
DOI: 10.1021/acs.jced.5b00040
- 4. Phase Equilibria of Clathrate Hydrates of Ethyne + Propene**
Kaniki Tumba, Hamed Hashemi, Paramespri Naidoo, Amir H. Mohammadi, and Deresh Ramjugernath
Journal of Chemical & Engineering Data **2015** 60 (2), 217-221
DOI: 10.1021/je500032z
- 5. High-Pressure Phase Equilibria of Tertiary-Butylamine Hydrates with and without Hydrogen**
Tomohiro Tanabe, Takeshi Sugahara, Kazuma Kitamura, Takahiro Yamazaki, Takashi Fujimoto, and Kazunari Ohgaki
Journal of Chemical & Engineering Data **2015** 60 (2), 222-227
DOI: 10.1021/je5003016
- 6. New Hydrate Phase Equilibrium Data for Two Binary Gas Mixtures of Hydrogen and Propane Coupled with a Kinetic Study**
Hari Prakash Veluswamy, Jin Chaw Yew, and Praveen Linga
Journal of Chemical & Engineering Data **2015** 60 (2), 228-237
DOI: 10.1021/je500489d
- 7. Optical Properties of Tetrahydrofuran Clathrate Hydrates with Polyvinylpyrrolidone (THF + H₂O + PVP) Revealed by Terahertz (THz) Time-Domain Spectroscopy**
Hyery Kang, Dong-Yeun Koh, Yun-Ho Ahn, Seonghoon Jung, Jaehun Park, Jaehyoung Lee, and Huen Lee
Journal of Chemical & Engineering Data **2015** 60 (2), 238-246
DOI: 10.1021/je5005092
- 8. The Combined Effect of Thermodynamic Promoters Tetrahydrofuran and Cyclopentane on the Kinetics of Flue Gas Hydrate Formation**
Nagu Daraboina and Nicolas von Solms
Journal of Chemical & Engineering Data **2015** 60 (2), 247-251
DOI: 10.1021/je500529w
- 9. Novel Benchtop Wheel Loop for Low Dosage Gas Hydrate Inhibitor Screening: Comparison to Rocking Cells for a Series of Antiagglomerants**
Malcolm A. Kelland, Anders Grinrød, and Erik G. Dirdal
Journal of Chemical & Engineering Data **2015** 60 (2), 252-257
DOI: 10.1021/je5005627
- 10. Are Laboratory-Formed Hydrate-Bearing Systems Analogous to Those in Nature?**
Erik Spangenberg, Mike Priegnitz, Katja Heeschen, and Judith M. Schicks
Journal of Chemical & Engineering Data **2015** 60 (2), 258-268

DOI: 10.1021/je5005609

11. Kinetic and Thermodynamic Aspects of Clathrate Hydrate Nucleation and Growth

Judith M. Schicks and Manja Luzi-Helbing

Journal of Chemical & Engineering Data **2015** 60 (2), 269-277

DOI: 10.1021/je5005593

12. Tuning Behaviors of Methane Inclusion in Isoxazole Clathrate Hydrates

Minjun Cha, Seungjun Baek, Wonhee Lee, Kyuchul Shin, and Jae W. Lee

Journal of Chemical & Engineering Data **2015** 60 (2), 278-283

DOI: 10.1021/je500568f

13. Sintering Process Observations on Gas Hydrates under Hydrate-Stable and Self-Preservation Conditions

Tsutomu Uchida, Daisuke Kishi, Toshiki Shiga, Masafumi Nagayama, and Kazutoshi Gohara

Journal of Chemical & Engineering Data **2015** 60 (2), 284-292

DOI: 10.1021/je500578d

14. Effectiveness of Low-Dosage Hydrate Inhibitors and their Rheological Behavior for Gas Condensate/Water Systems

Afzal Memon and Heng-Joo Ng

Journal of Chemical & Engineering Data **2015** 60 (2), 293-298

DOI: 10.1021/je500590y

15. Phase Equilibrium for Ionic Semiclathrate Hydrates Formed in the System of Water + Tetra-n-butylammonium Bromide Pressurized with Carbon Dioxide

Takayuki Kobori, Sanehiro Muromachi, and Ryo Ohmura

Journal of Chemical & Engineering Data **2015** 60 (2), 299-303

DOI: 10.1021/je500589z

16. Methane Hydrate Formation and Dissociation in the Presence of Hollow Silica

Pinnelli S. R. Prasad

Journal of Chemical & Engineering Data **2015** 60 (2), 304-310

DOI: 10.1021/je500597r

17. An Investigation of Kinetic Hydrate Inhibitors on the Natural Gas from the South China Sea

Shurui Xu, Shuanshi Fan, Yanhong Wang, and Xuemei Lang

Journal of Chemical & Engineering Data **2015** 60 (2), 311-318

DOI: 10.1021/je500600t

18. Methane Hydrates in Nature—Current Knowledge and Challenges

Tim Collett, Jang-Jun Bahk, Rick Baker, Ray Boswell, David Divins, Matt Frye, Dave Goldberg, Jarle

Husebø, Carolyn Koh, Mitch Malone, Margo Morell, Greg Myers, Craig Shipp, and Marta Torres

Journal of Chemical & Engineering Data **2015** 60 (2), 319-329

DOI: 10.1021/je500604h

19. Design Options for Avoiding Hydrates in Deep Offshore Production

Carlos A. B. R. Cardoso, Marcelo A. L. Gonçalves, and Ricardo M. T. Camargo

Journal of Chemical & Engineering Data **2015** 60 (2), 330-335

DOI: 10.1021/je500601f

20. Accelerated Hydrate Crystal Growth in the Presence of Low Dosage Additives Known as Kinetic Hydrate Inhibitors

Hassan Sharifi and Peter Englezos

Journal of Chemical & Engineering Data **2015** 60 (2), 336-342

DOI: 10.1021/je500591q

21. Experimental Measurements and Modeling of the Dissociation Conditions of Tetrabutylammonium Chloride Semiclathrate Hydrates in the Presence of Hydrogen

Ayako Fukumoto, Didier Dalmazzone, Patrice Paricaud, and Walter Fürst

Journal of Chemical & Engineering Data **2015** 60 (2), 343-350

DOI: 10.1021/je5006104

22. Antiagglomerant Hydrate Inhibitors: The Link between Hydrate-Philic Surfactant Behavior and Inhibition Performance

Sahana K. Nagappayya, Rebecca M. Lucente-Schultz, V. Mark Nace, and Vickie M. Ho

Journal of Chemical & Engineering Data **2015** 60 (2), 351-355

DOI: 10.1021/je500611d

23. Electric Heating for Hydrate Prevention in an Arctic, Single-Line Tieback

Douglas Turner, Jonathan Dubois, Ronald Bass, Tyler Hamilton, John Howlett, and David Greaves
Journal of Chemical & Engineering Data **2015** 60 (2), 356-361
DOI: 10.1021/je500608y

24. Calorimetric and Rheological Studies on Cyclopentane Hydrate-Forming Water-in-Kerosene Emulsions

Amit Ahuja, Genti Zyliftari, and Jeffrey F. Morris
Journal of Chemical & Engineering Data **2015** 60 (2), 362-368
DOI: 10.1021/je500609q

25. Calibration of Raman Quantification Factors of Guest Molecules in Gas Hydrates and Their Application to Gas Exchange Processes Involving N₂

Junfeng Qin and Werner F. Kuhs
Journal of Chemical & Engineering Data **2015** 60 (2), 369-375
DOI: 10.1021/je500613y

26. Failure Mechanisms in Cemented Hydrate-Bearing Sands

Shmulik Pinkert and Jocelyn L. H. Grozic
Journal of Chemical & Engineering Data **2015** 60 (2), 376-382
DOI: 10.1021/je500638c

27. Use of Hydrophobic Particles as Kinetic Promoters for Gas Hydrate Formation

Jialin Wang, Ruijia Wang, Roe-Hoan Yoon, and Yongkoo Seol
Journal of Chemical & Engineering Data **2015** 60 (2), 383-388
DOI: 10.1021/je5006455

28. Molecular Dynamics Simulations of Hydrogen Bonding in Clathrate Hydrates with Ammonia and Methanol Guest Molecules

Saman Alavi, Kyuchul Shin, and John A. Ripmeester
Journal of Chemical & Engineering Data **2015** 60 (2), 389-397
DOI: 10.1021/je5006517

29. Experimental Determination of CCl₄ Hydrate Phase Equilibria up to High Pressures

Alireza Shariati, Geert H. Lameris, and Cor J. Peters
Journal of Chemical & Engineering Data **2015** 60 (2), 398-402
DOI: 10.1021/je5006505

30. Phase Equilibrium Data and Model Comparisons for H₂S Hydrates

Zachary T. Ward, Connor E. Deering, Robert A. Marriott, Amadeu K. Sum, E. Dendy Sloan, and Carolyn A. Koh
Journal of Chemical & Engineering Data **2015** 60 (2), 403-408
DOI: 10.1021/je500657f

31. Methane Hydrate Bed Formation in a Visual Autoclave: Cold Restart and Reynolds Number Dependence

Zachary M. Aman, Masoumeh Akhflash, Michael L. Johns, and Eric F. May
Journal of Chemical & Engineering Data **2015** 60 (2), 409-417
DOI: 10.1021/je500670h

32. Effect of Hydrogen-to-Methane Concentration Ratio on the Phase Equilibria of Quaternary Hydrate Systems

M. Naveed Khan, Laura J. Rovetto, Cor J. Peters, E. Dendy Sloan, Amadeu K. Sum, and Carolyn A. Koh
Journal of Chemical & Engineering Data **2015** 60 (2), 418-423
DOI: 10.1021/je500675q

33. Equilibrium Data of Gas Hydrates containing Methane, Propane, and Hydrogen Sulfide

Zachary T. Ward, Robert A. Marriott, Amadeu K. Sum, E. Dendy Sloan, and Carolyn A. Koh
Journal of Chemical & Engineering Data **2015** 60 (2), 424-428
DOI: 10.1021/je5007423

34. Permafrost-Associated Gas Hydrate: Is It Really Approximately 1 % of the Global System?

C. Ruppel
Journal of Chemical & Engineering Data **2015** 60 (2), 429-436
DOI: 10.1021/je500770m

35. Hydrate Management in Practice

Keijo Kinnari, Jan Hundseid, Xiaoyun Li, and Kjell Magne Askvik

Journal of Chemical & Engineering Data **2015** *60* (2), 437-446

DOI: 10.1021/je500783u

36. Hydrate and Phase Behavior Modeling in CO₂-Rich Pipelines

Antonin Chapoy, Rod Burgass, Bahman Tohidi, and Ibrahim Alsiyabi

Journal of Chemical & Engineering Data **2015** *60* (2), 447-453

DOI: 10.1021/je500834t