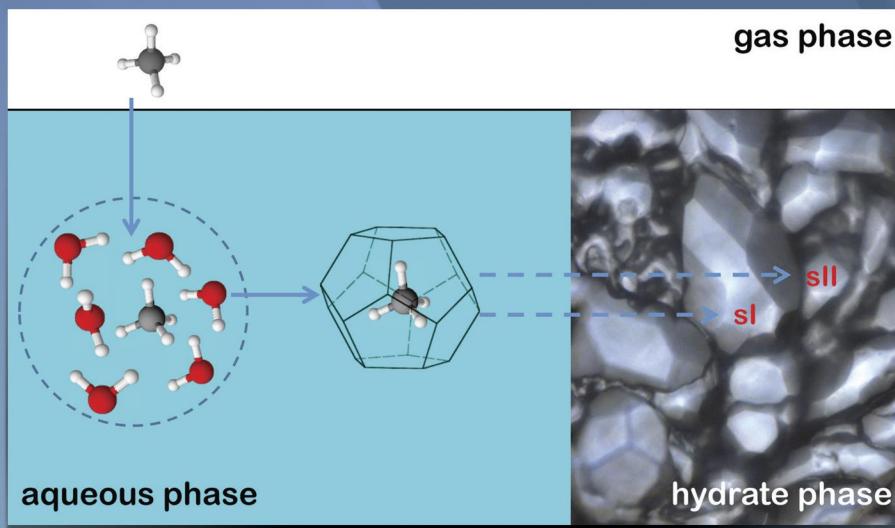
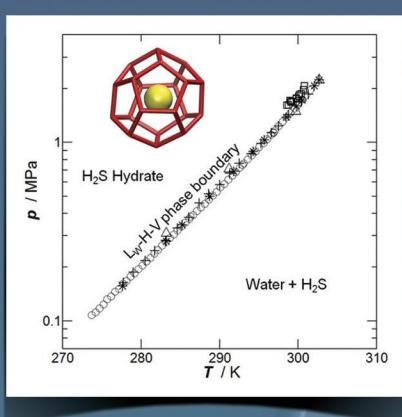
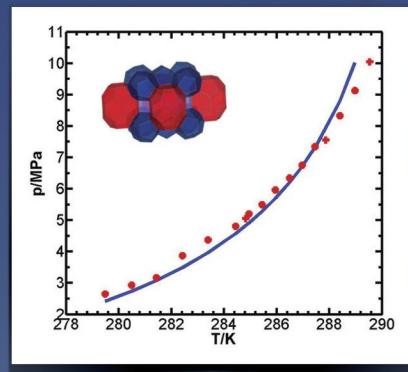
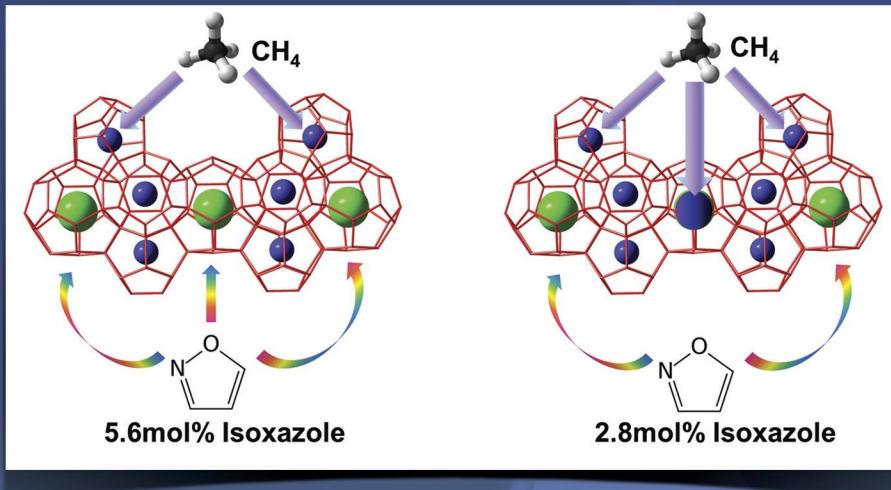




# Journal of chemical&engineering data

February 2015 • Volume 60, Issue 2 • pubs.acs.org/JCED



ACS Publications  
Most Trusted. Most Cited. Most Read.

[www.acs.org](http://www.acs.org)

## 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 + H<sub>2</sub>O + 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 Lutz-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 Zlyftari, 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 N<sub>2</sub>**

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 CCl<sub>4</sub> 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 H<sub>2</sub>S 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 Akhfash, 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 CO<sub>2</sub>-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