

Christophe Coquelet

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106
papers

1,552
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22
h-index

34
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117
ext. papers

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3.2
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4.71
L-index

#	Paper	IF	Citations
106	Vapour-liquid equilibria in the carbon dioxide-water system, measurement and modelling from 278.2 to 318.2K. <i>Fluid Phase Equilibria</i> , 2004 , 226, 333-344	2.5	262
105	Effect of impurities on thermophysical properties and phase behaviour of a CO ₂ -rich system in CCS. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 19, 92-100	4.2	58
104	Investigation of a two stage Rankine cycle for electric power plants. <i>Applied Energy</i> , 2012 , 100, 285-294	10.7	56
103	Experimental measurements and correlation of vapor-liquid equilibrium and critical data for the CO ₂ + R1234yf and CO ₂ + R1234ze(E) binary mixtures. <i>International Journal of Refrigeration</i> , 2014 , 47, 141-152	3.8	46
102	Vapor-liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 317-323	2.8	43
101	Solubility of hydrocarbons in water: Experimental measurements and modeling using a group contribution with association equation of state (GCA-EoS). <i>Fluid Phase Equilibria</i> , 2009 , 275, 52-59	2.5	42
100	Experimental Measurement of Vapor Pressures and Densities of Pure Hexafluoropropylene. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2093-2099	2.8	41
99	Determination of critical properties of pure and multi-component mixtures using a dynamic-synthetic apparatus. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 545-553	4.2	41
98	New Solubility Data of Hydrocarbons in Water and Modeling Concerning Vapor-liquid-liquid Binary Systems. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 9257-9262	3.9	39
97	Acid gases partial pressures above a 50wt% aqueous methyldiethanolamine solution: Experimental work and modeling. <i>Fluid Phase Equilibria</i> , 2010 , 289, 99-109	2.5	34
96	Vapour-liquid equilibrium data for the hydrogen sulphide (H ₂ S)+carbon dioxide (CO ₂) system at temperatures from 258 to 313K. <i>Fluid Phase Equilibria</i> , 2013 , 356, 223-228	2.5	30
95	Isothermal Vapor-liquid Equilibrium Data for the Perfluorobutane (R610) + Ethane System at Temperatures from (263 to 353) K. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1918-1924	2.8	29
94	Isothermal Vapor-liquid Equilibrium Data for the Hexafluoroethane (R116) + Propane System at Temperatures from (263 to 323) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1292-1296	2.8	28
93	Measurement of the Water Solubility in the Gas Phase of the Ethane + Water Binary System near Hydrate Forming Conditions. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 957-966	2.8	28
92	Hydrocarbons-water phase equilibria using the CPA equation of state with a group contribution method. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 432-442	2.3	25
91	Isothermal vapor-liquid equilibrium data for the carbon dioxide (R744)+decafluorobutane (R610) system at temperatures from 263 to 353K. <i>Fluid Phase Equilibria</i> , 2011 , 304, 44-51	2.5	25
90	Vapor-liquid equilibrium in the n-butane+methanol system, measurement and modeling from 323.2 to 443.2K. <i>Fluid Phase Equilibria</i> , 2009 , 277, 152-161	2.5	24

89	Measurements and predictive models of high-pressure H ₂ solubility in brine (H ₂ O+NaCl) for underground hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32206-32220	6.7	23
88	Hydrate equilibrium data for the CO ₂ + N ₂ system with the use of tetra-n-butylammonium bromide (TBAB), cyclopentane (CP) and their mixture. <i>Fluid Phase Equilibria</i> , 2016 , 408, 240-247	2.5	22
87	Fluid-phase-equilibrium prediction of fluorocompound-containing binary systems with the predictive E-PPR78 model. <i>International Journal of Refrigeration</i> , 2017 , 73, 65-90	3.8	22
86	Thermodynamic study of binary systems containing sulphur dioxide: Measurements and molecular modelling. <i>Fluid Phase Equilibria</i> , 2011 , 304, 21-34	2.5	22
85	Vapor-liquid equilibrium data for the hexafluoroethane+carbon dioxide system at temperatures from 253 to 297K and pressures up to 6.5MPa. <i>Fluid Phase Equilibria</i> , 2007 , 258, 179-185	2.5	22
84	Experimental Measurement of Vapor Pressures and Densities at Saturation of Pure Hexafluoropropylene Oxide: Modeling Using a Crossover Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 4761-4768	3.9	21
83	Liquid-liquid equilibria of water- solutes (acetic acid/ acetol/furfural/guaiacol/methanol/phenol/propanal)- solvents (isopropyl acetate/toluene) ternary systems for pyrolysis oil fractionation. <i>Fluid Phase Equilibria</i> , 2018 , 468, 49-57	2.5	20
82	Vapour-liquid equilibrium (VLE) for the systems furan+n-hexane and furan+toluene. Measurements, data treatment and modeling using molecular models. <i>Fluid Phase Equilibria</i> , 2013 , 337, 234-245	2.5	20
81	Volumetric properties of (piperidine + water) binary system: Measurements and modeling. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 47-53	2.9	20
80	Isothermal vapor-liquid equilibrium data for the trifluoromethane (R23) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) system at temperatures from 254 to 348 K. <i>Fluid Phase Equilibria</i> , 2016 , 415, 158-165	2.5	19
79	Densities and derived thermophysical properties of the 0.9505 CO ₂ + 0.0495 H ₂ S mixture from 273 K to 353 K and pressures up to 41 MPa. <i>Fluid Phase Equilibria</i> , 2016 , 423, 156-171	2.5	19
78	Thermodynamic study of the CO ₂ -H ₂ O -NaCl system: Measurements of CO ₂ solubility and modeling of phase equilibria using Soreide and Whitson, electrolyte CPA and SIT models. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 91, 102825	4.2	18
77	Vapor-liquid equilibrium data for the (hexafluoroethane +1,1,1,2-tetrafluoroethane) system at temperatures from 263 to 353 K and pressures up to 4.16 MPa. <i>Fluid Phase Equilibria</i> , 2008 , 268, 68-73	2.5	18
76	An equation of state for solid-liquid-vapor equilibrium applied to gas processing and natural gas liquefaction. <i>Fluid Phase Equilibria</i> , 2014 , 362, 258-267	2.5	16
75	Measurement of Henry's Law Constants and Infinite Dilution Activity Coefficients of Propyl Mercaptan, Butyl Mercaptan, and Dimethyl Sulfide in Methyl-diethanolamine (1) + Water (2) with w ₁ = 0.50 Using a Gas Stripping Technique. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 2053-2057	2.8	16
74	A generalized Kiselev crossover approach applied to Soave-Redlich-Kwong equation of state. <i>Fluid Phase Equilibria</i> , 2015 , 401, 16-26	2.5	15
73	Improvement of the PR-CPA equation of state for modelling of acid gases solubilities in aqueous alkanolamine solutions. <i>Fluid Phase Equilibria</i> , 2018 , 471, 74-87	2.5	15
72	Vapor-liquid Equilibrium Measurements and Modeling for the Ethane (R-170) + 1,1,2,3,3,3-Hexafluoro-1-propene (R-1216) Binary System. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2947-2955	2.8	15

71	Application of a new crossover treatment to a generalized cubic equation of state. <i>Fluid Phase Equilibria</i> , 2011 , 302, 241-248	2.5	15
70	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1629-1657	2.8	15
69	Prediction of thermodynamic properties of refrigerant fluids with a new three-parameter cubic equation of state. <i>International Journal of Refrigeration</i> , 2016 , 69, 418-436	3.8	13
68	Phase equilibrium data for the hydrogen sulphide + methane system at temperatures from 186 to 313 K and pressures up to about 14 MPa. <i>Fluid Phase Equilibria</i> , 2014 , 383, 94-99	2.5	13
67	Vapour-liquid equilibrium of binary systems containing pentafluorochemicals from 363 to 413 K: Measurement and modelling with Peng-Robinson and three SAFT-like equations of states. <i>International Journal of Refrigeration</i> , 2012 , 35, 2297-2310	3.8	13
66	High-Pressure Vapor-liquid Equilibria, Liquid Densities, and Excess Molar Volumes for the Carbon Dioxide + 2-Propanol System from (308.10 to 348.00) K. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2032-2040	2.8	13
65	Impact of impurities on CO ₂ storage in saline aquifers: Modelling of gases solubility in water. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 68, 247-255	4.2	12
64	Vapour-liquid equilibrium data for the hydrogen sulphide+n-heptane system at temperatures from 293.25 to 373.22K and pressures up to about 6.9MPa. <i>Fluid Phase Equilibria</i> , 2006 , 249, 179-186	2.5	11
63	Vapor-liquid equilibrium and molecular simulation data for carbon dioxide (CO ₂) + trans-1,3,3,3-tetrafluoroprop-1-ene (R-1234ze(E)) mixture at temperatures from 283.32 to 353.02 K and pressures up to 7.6 MPa. <i>International Journal of Refrigeration</i> , 2019 , 98, 362-371	3.8	11
62	Equilibrium Data for the Oxygen + Propane Binary System at Temperatures of (110.22, 120.13, 130.58, and 139.95) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4412-4415	2.8	10
61	Experimental and modelling study of the densities of the hydrogen sulphide- methane mixtures at 253, 273 and 293 K and pressures up to 30 MPa. <i>Fluid Phase Equilibria</i> , 2016 , 427, 371-383	2.5	10
60	Vapor-liquid equilibrium measurements for 5 binary mixtures involving HFO-1336mzz(E) at temperatures from 313 to 353 K and pressures up to 2.735 MPa. <i>International Journal of Refrigeration</i> , 2020 , 114, 210-220	3.8	9
59	An improved static-analytic apparatus for vapor-liquid equilibrium (PT _{xy}) measurement using modified in-situ samplers. <i>Fluid Phase Equilibria</i> , 2016 , 409, 425-433	2.5	8
58	Phase Equilibria of H ₂ S-Hydrocarbons (Propane, n-Butane, and n-Pentane) Binary Systems at Low Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1534-1543	2.8	8
57	Phase Equilibria of Three Binary Mixtures: Methanethiol + Methane, Methanethiol + Nitrogen, and Methanethiol + Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 896-901	2.8	8
56	Measurement through a Gas Stripping Technique of Henry's Law Constants and Infinite Dilution Activity Coefficients of Propyl Mercaptan, Butyl Mercaptan, and Dimethyl Sulfide in Methyl-diethanolamine (1) + Water (2) with w ₁ = 0.25 and 0.35. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2540-2543	2.8	8
55	Experimental determination of the critical loci for R-23 + (n-propane or n-hexane) and R-116 + n-propane binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2017 , 108, 84-96	2.9	7
54	Transport of CO ₂ : Presentation of New Thermophysical Property Measurements and Phase Diagrams. <i>Energy Procedia</i> , 2017 , 114, 6844-6859	2.3	7

53	Review of carbon dioxide capture and storage with relevance to the South African power sector. <i>South African Journal of Science</i> , 2014 , 110, 1-12	1.3	7
52	Vapor-Liquid-Liquid Equilibrium Measurements and Modeling of the Methanethiol + Methane + Water Ternary System at 304, 334, and 364 K. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11561-11564	3.9	7
51	Isothermal Vapor-Liquid Equilibrium Data and Modeling for the Ethane (R170) + Perfluoropropane (R218) System at Temperatures from (264 to 308) K. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1316-1320	2.8	7
50	Experimental determination of phase diagram and modeling: Application to refrigerant mixtures. <i>International Journal of Refrigeration</i> , 2009 , 32, 1604-1614	3.8	7
49	Water Content of CO ₂ -rich Mixtures: Measurements and Modeling using the Cubic-Plus-Association Equation of State 2016 , 1, 85-97		7
48	Experimental measurement and modelling of vapor-liquid equilibrium for 3,3,3-Trifluoropropene (R1243zf) and trans-1,3,3,3-Tetrafluoropropene (R1234ze(E)) binary system. <i>International Journal of Refrigeration</i> , 2020 , 120, 137-149	3.8	7
47	Equilibrium data and GC-PC SAFT predictions for furanic extraction. <i>Fluid Phase Equilibria</i> , 2016 , 430, 57-66	2.5	7
46	Isothermal Vapor-Liquid Equilibrium Measurements for the (R1234ze(E) + Ethane) System at Temperatures from 272.27 to 347.52 K. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 4185-4192	2.8	7
45	Effect of acid gases on the solubility of n-propylmercaptan in 50 wt% methyl-diethanolamine aqueous solution. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 600-605	5.5	6
44	Alkane solubilities in aqueous alkanolamine solutions with CPA EoS. <i>Fluid Phase Equilibria</i> , 2017 , 434, 93-101	2.5	5
43	Isothermal vapor-liquid equilibrium data for the decafluorobutane (R3110)+1,1,1,3,3-pentafluorobutane (R365mfc) system at temperatures from 333K to 441K. <i>Fluid Phase Equilibria</i> , 2013 , 354, 109-113	2.5	5
42	Vapor-Liquid-Liquid Equilibrium Measurements and Modeling of Ethanethiol + Methane + Water, 1-Propanethiol + Methane + Water and 1-Butanethiol + Methane + Water Ternary Systems at 303, 335, and 365 K and Pressure Up to 9 MPa. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14698-14705	3.9	5
41	Vapor-Liquid Equilibrium measurements and modeling for the cyclohexane + cyclohexanol binary system. <i>Fluid Phase Equilibria</i> , 2010 , 298, 33-37	2.5	5
40	Vapor-Liquid Equilibria of the CH ₄ + CO ₂ + H ₂ S Ternary System with Two Different Global Compositions: Experiments and Modeling. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1802-1813	2.8	4
39	Hydrogen sulfide solubility in 50 wt% and 70 wt% aqueous methyldiethanolamine at temperatures from 283 to 393 K and total pressures from 500 to 10000 kPa. <i>Fluid Phase Equilibria</i> , 2020 , 511, 112498	2.5	4
38	A New Semi-Empirical Model for Saturated Vapor Density of Pure Compounds. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 577-590	2.8	4
37	Experimental measurements and modelling of vapour-liquid equilibrium of 2,3,3,3-tetrafluoropropene (R-1234yf) + 1,1,1,2,2-pentafluoropropane (R-245cb) system. <i>International Journal of Refrigeration</i> , 2019 , 107, 315-325	3.8	4
36	Vapor-Liquid equilibrium data for the dimethyl ether (RE170)+decafluorobutane (R3-1-10) system at temperatures from 313.28 to 392.83K and pressures up to 4.9MPa. <i>Fluid Phase Equilibria</i> , 2012 , 316, 141-146	2.5	4

35	Measurements and Modeling of High-Pressure O ₂ and CO ₂ Solubility in Brine (H ₂ O + NaCl) between 303 and 373 K and Pressures up to 36 MPa. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 609-620	2.8	4
34	Vapor Liquid Equilibrium Data for the Furan-Toluene Binary System between 313.02 and 352.99 K. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 1168-1172	2.8	3
33	Simulations of the Impact of Co-injected Gases on CO ₂ Storage, the SIGARRR Project: Processes and Geochemical Approaches for Gas-water-Salt Interactions Modeling. <i>Energy Procedia</i> , 2017 , 114, 3322-3334	2.3	3
32	Density and Excess Volume for Four Systems Involving Eugenol and Furan. <i>Journal of Solution Chemistry</i> , 2019 , 48, 455-488	1.8	3
31	Isothermal Vapor-Liquid Equilibrium (VLE) and Vapor-Liquid-Liquid Equilibrium (VLLE) Data for Two Binary Systems Containing Perfluorohexane with Carbon Monoxide or Hydrogen Sulfide at (293, 313, and 333) K. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2461-2468	2.8	3
30	Phase Equilibrium of Three Binary Mixtures Containing NO and Components Present in Ambient Air. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1021-1026	2.8	3
29	Densities and Excess Molar Volumes of the Ternary System (1,4-Dioxane + 2-Propanol + 1,1,2,2-Tetrachloroethane) at T = 288.15-318.15 K and at Atmospheric Pressure: Experimental Measurements and Prigogine-Flory-Patterson Modeling. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5122-5131	2.8	3
28	Isothermal Vapor-Liquid Equilibrium Data for the Hexafluoroethane (R116) +n-Butane System at Temperatures from 273 to 323 K. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3483-3487	2.8	3
27	Prediction of methanol content in natural gas with the GC-PR-CPA model. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 745-750	4.6	3
26	Vapor-Liquid Equilibrium (PT _{xy}) Measurements and Modeling for the CO ₂ -H ₄ Binary System. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2744-2749	2.8	3
25	Density data for carbon dioxide (CO ₂) +trans-1,3,3-tetrafluoroprop-1-ene (R-1234ze(E)) mixture at temperatures from 283.32 to 353.02K and pressures up to 10MPa. <i>International Journal of Refrigeration</i> , 2020 , 120, 430-444	3.8	3
24	Apparent Henry's law constants of furan in different n-alkanes and alcohols at temperatures from 293 to 323 K. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1205-1209	6.8	2
23	Isothermal Vapor-Liquid Equilibrium Data for Binary Mixtures of Hexafluoroethane (R116) + n-Pentane or n-Hexane at Two Temperatures, 288 and 296 K. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1228-1233	2.8	2
22	Measurement of Henry's Law constant and infinite dilution activity coefficient of isopropyl mercaptan and isobutyl mercaptan in (methyldiethanolamine (1) + water (2)) with w ₁ = 0.25 and 0.50 at temperature of (298 to 348) K using inert gas stripping method. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 193-199	2.9	2
21	Vapor-Liquid Equilibrium Measurements and Modeling for Cyclohexane + Cyclohexanone. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4521-4524	2.8	2
20	Experimental Density Data of Three Carbon Dioxide and Oxygen Binary Mixtures at Temperatures from 276 to 416 K and at Pressures up to 20 MPa. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5313-5327	2.8	2
19	Measurement and modelling of solid apparition temperature for the CO ₂ -H ₂ S -CH ₄ ternary system. <i>Fluid Phase Equilibria</i> , 2020 , 509, 112465	2.5	2
18	Volumetric Properties of Furan and 2-5-Dimethylfuran in Different Industrial Solvents at Temperatures from 278 to 343 K. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 2666-2680	2.8	2

17	New Features of the Open Source Monte Carlo Software Brick-CFCMC: Thermodynamic Integration and Hybrid Trial Moves. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3752-3757	6.1	2
16	New Amine Based Solvents for Acid Gas Removal 2017 , 127-145		1
15	Experimental Determination of Thermophysical Properties of Working Fluids for ORC Applications 2020 ,		1
14	Phase Equilibrium Measurements and Modeling of 1-Propanethiol +1-Butanethiol + CH ₄ in Methane Ternary System at 303, 336, and 368 K and Pressure Up to 9 MPa. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 41-44	2.8	1
13	Vapor-Liquid Equilibrium measurements and modeling for the cyclohexane+n-hexanoic acid binary system. <i>Fluid Phase Equilibria</i> , 2011 , 309, 15-19	2.5	1
12	Chemoinformatics-Driven Design of New Physical Solvents for Selective CO Absorption. <i>Environmental Science & Technology</i> , 2021 , 55, 15542-15553	10.3	1
11	Vapour-Liquid Equilibria of Ethane and Ethanethiol: Experiments and Modelling 2019 , 3, 96-108		1
10	Vapor pressures and vapor phase compositions of choline chloride urea and choline chloride ethylene glycol deep eutectic solvents from molecular simulation. <i>Journal of Chemical Physics</i> , 2021 , 155, 114504	3.9	1
9	Vapour-liquid equilibria of n-butane and ethyl mercaptan: Experiments and modelling. <i>Fluid Phase Equilibria</i> , 2020 , 504, 112335	2.5	0
8	Vapor Liquid Equilibrium Data for the Hydrogen Chloride-Chlorobenzene Binary System at 353.16, 403.16, and 453.25 K. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 3652-3657	2.8	
7	Phase Equilibrium Properties Aspects of CO ₂ and Acid Gases Transportation 2018 , 147-167		
6	Thermodynamic Aspects for Acid Gas Removal from Natural Gas 2018 , 169-180		
5	Improvements for a Fully Consistent Description of the New Semi-Empirical Vapor Density Model for Pure Compounds. <i>Fluid Phase Equilibria</i> , 2022 , 113374	2.5	
4	Hydrate Stability of Carbon Dioxide + Oxygen Binary Mixture (CO ₂ + O ₂) in Pure Water: Measurements and Modeling. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 767-779	2.8	
3	Role of Computational Variables on the Performances of COSMO-SAC Model: A Combined Theoretical and Experimental Investigation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 2314-2325	3.9	
2	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Ethers from 278.15-333.15 K and at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 554-567	2.8	
1	Isothermal P, x, y Data for the Nitrogen + Carbon Monoxide System at five Temperatures from 100 to 130 K and Pressures up to 3.4 MPa. <i>Fluid Phase Equilibria</i> , 2022 , 113476	2.5	