



TABLE OF CONTENTS

●	Description	p.1
●	Impact Factor	p.2
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.4



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DESCRIPTION

The *Journal of Chemical Thermodynamics* exists primarily for dissemination of significant new knowledge in experimental **equilibrium thermodynamics** and transport properties of **chemical systems**. The defining attributes of The Journal are the quality and relevance of the papers published.

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INTRODUCTION

General

Please consult this Guide for Authors for further details on the requirements for submitting your paper to *The Journal of Chemical Thermodynamics*. The guidelines described in this document, as well as those listed in the JCT Style Notes, should be carefully adhered to ensure high-quality and rapid publication of your manuscript.

Aims and Scope

The Journal of Chemical Thermodynamics exists primarily for dissemination of significant new measurements in experimental thermodynamics and thermophysics including bio-thermodynamics, calorimetry, phase equilibria, equilibrium thermodynamic properties and transport properties.

The Journal publishes work relating to gases, liquids, solids, mixtures, solutions, interfaces, including polymers and biological materials, provided that the systems studied are characterised and reproducible.

The defining attributes of The Journal are the quality and relevance of the papers published. Authors are expected to describe their methods and present their results in sufficient detail to allow critical assessment of the accuracy claimed.

Further, The Journal welcomes theoretical papers reporting on thermodynamics using molecular theory or modeling, provided the relationship with experiment is clearly described. Review articles will also be considered but prospective authors should first consult one of the Editors concerning the suitability of the proposed review.

Experimental measurements of a routine nature or those conducted on uncharacterised materials are not accepted.

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Divide the article into clearly defined sections.

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If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

Style Requirements

Symbols, Units and Equations

1. Symbols and terminology must follow the recommendations of IUPAC (see: *Quantities, Units and Symbols in Physical Chemistry*, third ed.; RSC Publishing, Cambridge 2007, ISBN 0 85404 433 7).
2. SI units should be used throughout.
3. The algebra of quantities must be followed. Accordingly, the symbol for a physical quantity represents a pure number multiplied by a unit or combination of units.
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5. The symbol for a physical quantity must appear in italic or sloping type, even when the symbol appears in a subscript or a superscript. Conversely, symbols not designating a physical quantity should appear in Roman or upright type: e.g. YJCHT_ST_1.JPG represents the perfect-gas molar heat capacity (italic 'p' for pressure, Roman 'm' for molar).
6. Symbols should be defined in the text when they are first used, and also in figure and table legends.
7. Equations must always be dimensionally consistent. Equations used to correlate experimental data may be best in a dimensionless form.

Example

YJCHT_ST_2.JPG

8. The arguments of logarithmic, exponential and trigonometric functions must be dimensionless: e.g. $\ln(p/\text{MPa})$ or $\ln(p/p_0)$ but not $\ln(p)$.
9. Equations, when displayed, should be centred and numbered, flush right, in parenthesis eg

YJCHT_ST_3.JPG (1)

10. Always puncture after an equation to place it correctly within the sentence that contains it (see example above).
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Example figure and legend text

YJCHT_ST_5.JPG

FIGURE 1. (a) Densities ρ of pentafluoroethane at temperatures T : \square , saturated liquid; \bullet , saturated vapour; -----, saturated vapour and liquid calculated from Eq. (4). (b) Deviations of experimental saturated liquid densities ρ_1 from values ρ_{calc} calculated from Eq. (4).

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29. Footnotes may be cited using lower-case Roman superscripts (e.g. a,b). Define the footnotes at the base of the table.
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Example table and legend text

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[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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