

***** science-softCon UV/Vis⁺ Spectra Data Base *****
“Spectra News“ (March 2013)

The “UV/Vis⁺ Spectra Data Base” has been available on-line for 12 years (2000 – 2012)

Dear Colleagues,

this is the 28th issue of the science-softCon *UV/Vis⁺ Spectra Data Base* “Spectra News”. To regularly obtain "Spectra News", which provides important information concerning the on-line *UV/Vis⁺ Spectra Data Base*, register at no cost for our mailing list or visit our web-site (<http://www.uv-spectra.de/>). “Spectra News” will be sent out periodically, about every 4 months.

The on-line *UV/Vis⁺ Spectra Data Base* is a non-profit project and is operated in accordance with the **"Open Access"** definitions and regulations of the CSPR Assessment Panel on Scientific Data and Information (International Council for Science, 2004).

We welcome your suggestions, comments, questions, etc. To unsubscribe, send an E-Mail to helpdesk (Subject: unsubscribe).

In this issue:

science-softCon „UV/Vis⁺ Spectra Data Base“, 9th edition 2013 (ISBN 978-3-00-041177-9) is available

The 9th edition of the “UV/Vis⁺ Spectra Data Base” CD-ROM (Editors: A. Noelle, G.K. Hartmann, A. Fahr, D. Lary, Y.-P. Lee, P. Limao-Vieira, J.F. Martin-Torres, J.J. Orlando, F. Salama, A.C. Vandaele, R.P. Wayne, C.Y.R. Wu and G.G.B. de Souza; ISBN 978-3-00-041177-9) is available. The CD contains about 6900 spectra/datasheets as well as more than 1300 graphical representations for about 1000 substances and is available for 180 EURO (160 EURO: universities, governmental organizations, non-profit organizations).

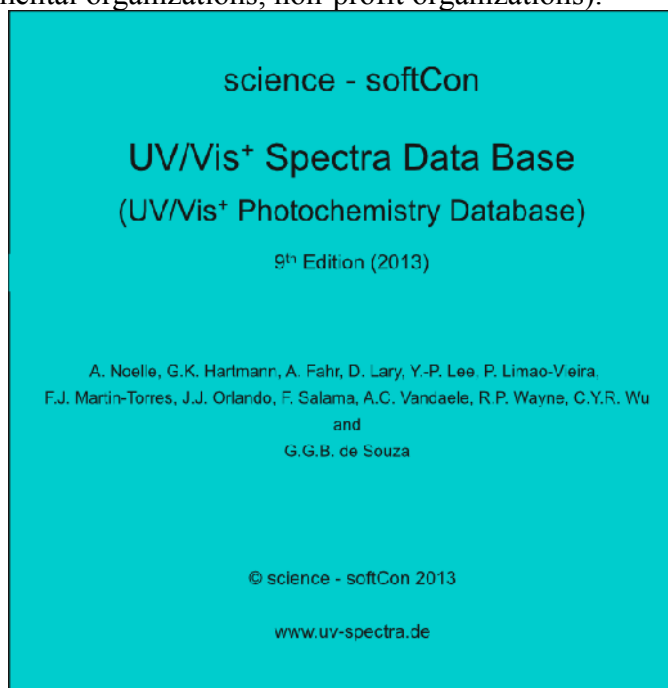


Fig. 1: Front cover of the 9th Edition “UV/Vis⁺ Spectra Data Base” CD-ROM

Starting with the 7th Edition of the CD-Series the SAG has decided to nominate a scientist who had made significant contributions in the research areas Spectroscopy and/or Photochemistry as “Honorary Editor”. The “Honorary Editor” will change for each issue.

It is a great honour and pleasure for me to announce on behalf of the SAG that Prof. G. Gerson B. de Souza has been appointed "Honorary Editor" of the 9th edition of the “UV/Vis⁺ Spectra Data Base” CD-ROM.

Prof. de Souza is faculty member of the *Chemistry Institute* at Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil. G. Gerson B. de Souza has been working on the field of electron and photon interaction with molecules over the years and has a vast experience on synchrotron radiation. His current research interest are focused on natural emission species either from the Amazon trees or any other natural compound. Gerson de Souza is a renowned member of the scientific community and a worthy successor of Prof. Halpern (Honorary Editor, 8th edition, 2011).

As for the 7th and 8th edition we've asked several scientists from different research areas to give us a short Review for the 9th edition. The reviews will be published on our website as soon as available.

The new spectra CD has several new features like a full-text-search engine, printer function etc.

science-softCon "UV/Vis⁺ Spectra Data Base" (UV/Vis⁺ Photochemistry Database)
9th Edition (2013); ISBN 978-3-00-041177-9

Editors
A. Noelle, G.K. Hartmann, A. Fahr, D. Lary, Y.-P. Lee, P. Limao-Vieira, F.J. Martin-Torres, J.J. Orlando, F. Salma, A.C. Vandaele, R.P. Wayne, C.Y.R. Wu

Honorary Editor
G.G.B. de Souza

Contact SAG Honorary Editor Search by CAS www.uv.spectra.de

Spectral information (gas, liquid and solid phase from EUV-VUV-UV-Vis-NIR) and related data (e.g. information concerning publications on quantum yield studies or photolysis studies) from published papers.

Substance Groups (You can also use the CAS-List).

| | | | |
|--|---------------------------------------|---------------------------------------|----------------------------------|
| Alkali Compounds | Aromatic Compounds | Carbon Oxides | Dyes |
| Halogenated Alkanes, Alkenes | Halogenated Aromatics | Halogenated Carbonyl Compounds | Halogenated Nitrogen Compounds |
| Halogens/Halogenoxides | Hydrocarbons | Hydrogenhalides/Hypohalides | Nitrogen Acids |
| Nitrogen/Nitrogen Oxides | Noble Gases | Organic Acids/Esters | Organic Carbonyl Compounds |
| Organic Nitrogen Compounds | Organic Peroxy Compounds | Other Oxygenated Organics | Oxygen Hydrogen Compounds |
| PAH (Polycyclic Aromatic Hydrocarbons) | PBDE (Polybrominated Diphenyl Ethers) | PCLD (Polychlorinated Dibenzodioxins) | Pesticides/Herbicides |
| Radicals | Sulfur Compounds | Other Species (not yet categorized) | Photochemical Conversion Factors |

This database is a mirror of the on-line UV/Vis⁺ Spectra Data Base as of February 2013

Keep your UV/Vis⁺ Spectra Data Base up-to-date by ordering a subscription to the on-line database at: www.uv-spectro.de

The spectral data are as provided by the authors or listed in the relevant publications. We would like to thank those colleagues who support us in maintaining the database! Please support this spectral data compilation project and provide us your spectral data and photochemical information

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Fig. 2: Start window of the CD software

In addition to the spectra/datasheets more than 1300 graphical representations have been added to the database.

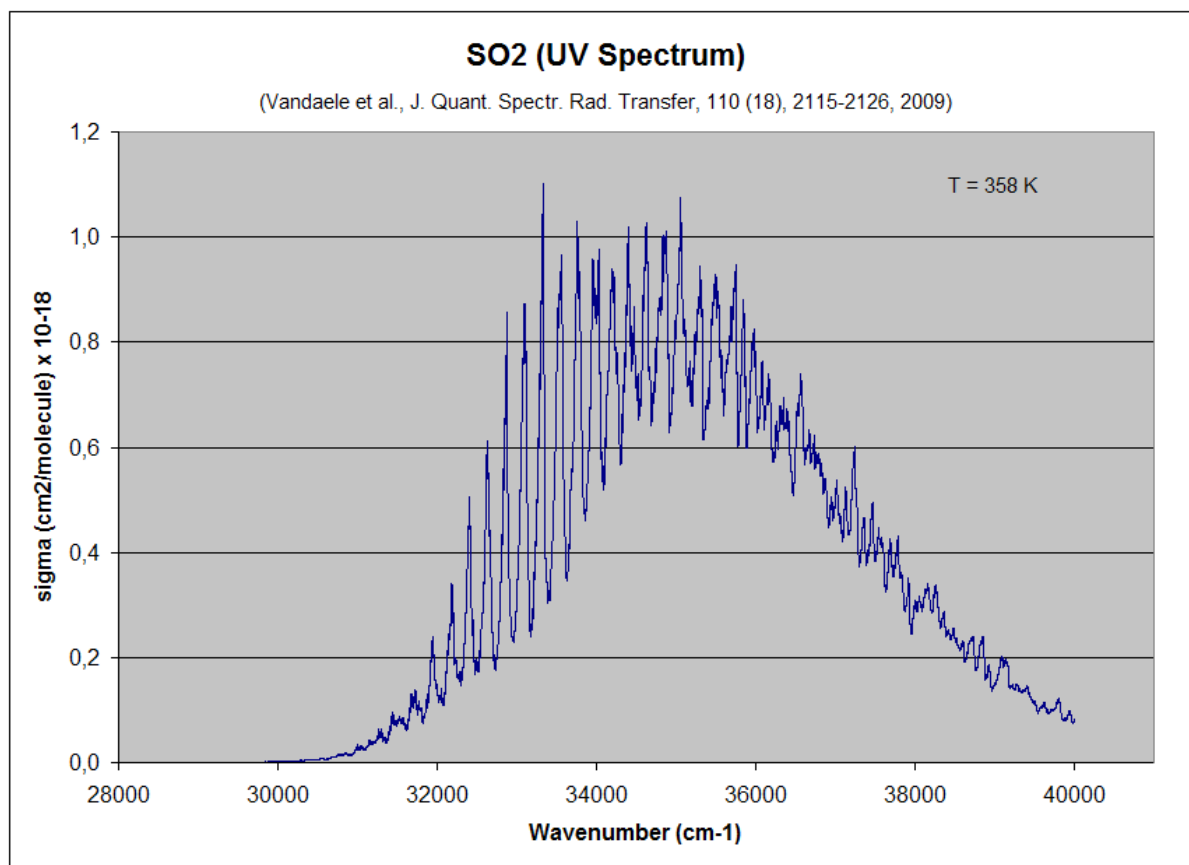


Fig. 3: Graphical representation of the SO₂ spectrum at 358 K (Vandaele et al., J. Quant. Spectr. Rad. Transfer, 110 (18), 2115-2126, (2009)).

More information will be available at www.uv-spectra.de.

Preface from the "Honorary Editor"

With a long experience on the use of electron energy-loss spectroscopy and synchrotron radiation-based techniques to study the electronic excitation and dissociation of gas-phase molecules, I can heartily testify on the utility and relevance of having access to scientific data bases such as the "UV/Vis⁺ Photochemistry Data Base". Access to such a database can be extremely useful to the communities of photochemists, astrophysicists, physicists and spectroscopists in general.

It is a great honour being named honorary editor for the 9th edition of the UV/Vis⁺ Spectra Data Base. I sincerely thank the Scientific Advisory Group for selecting my name and take this opportunity to strongly invite the scientific community to increasingly support this important project.

G Gerson B de Souza

Database maintenance

The on-line "UV/Vis⁺ Spectra Data Base" contains currently about 7000 spectra/datasheets for almost 1000 substances. Additional spectra/datasheets will be added continuously. In addition the "Spectra

Service” provides currently about 1400 graphical representations and links to abstracts of listed publications as well as links to on-line available original publications.

One-time registration for university libraries and governmental organizations

To minimize the bureaucratic expenditure and to benefit from the future development of the database a one-time registration for university libraries and governmental organizations is possible. However, we do charge a one time registration fee of 750 EURO for such institutions which is necessary to help maintain this non-profit service to the scientific community. Thus, a one-time charge, which includes the latest issue of the “UV/Vis⁺ Spectra Data Base” CD-ROM series (9th edition 2011, ISBN 978-3-00-041177-9), will provide your institution permanent access to this fast growing database (Literature Service and Spectra Service) via IP-number. Please note that the database has been on-line for more than 12 years and has grown continuously. Additional spectra/datasheets will be added in the future.

This type of subscription is available since January 2011 and there are already several universities/governmental organizations which have made use of this convenient and helpful opportunity. You can [check](#) if your organisation has already permanent and full access to the on-line database.

For more information please contact your librarian or our helpdesk@science-softcon.de.

The support of the scientific community is required

The support of the scientific community is of utmost importance for such a data compilation project. We would be grateful to have [your opinion](#) on the database in its present form. Any criticism will be just as welcome as your positive comments and suggestions, since all considerations will be very helpful in improving the database.

To support us in maintaining the database, we would be grateful for your assistance in supplying any missing or new spectra data as well as other related data and information (e.g. quantum yield studies, photolysis studies) for inclusion into the database. Our database philosophy is that those scientists who support us in maintaining the database will get free access to the database. Currently more than 90% of its users have free-of-charge access to the database.

Yours sincerely,

[Andreas Noelle](#) (mail to: andreas.noelle@science-softcon.de)