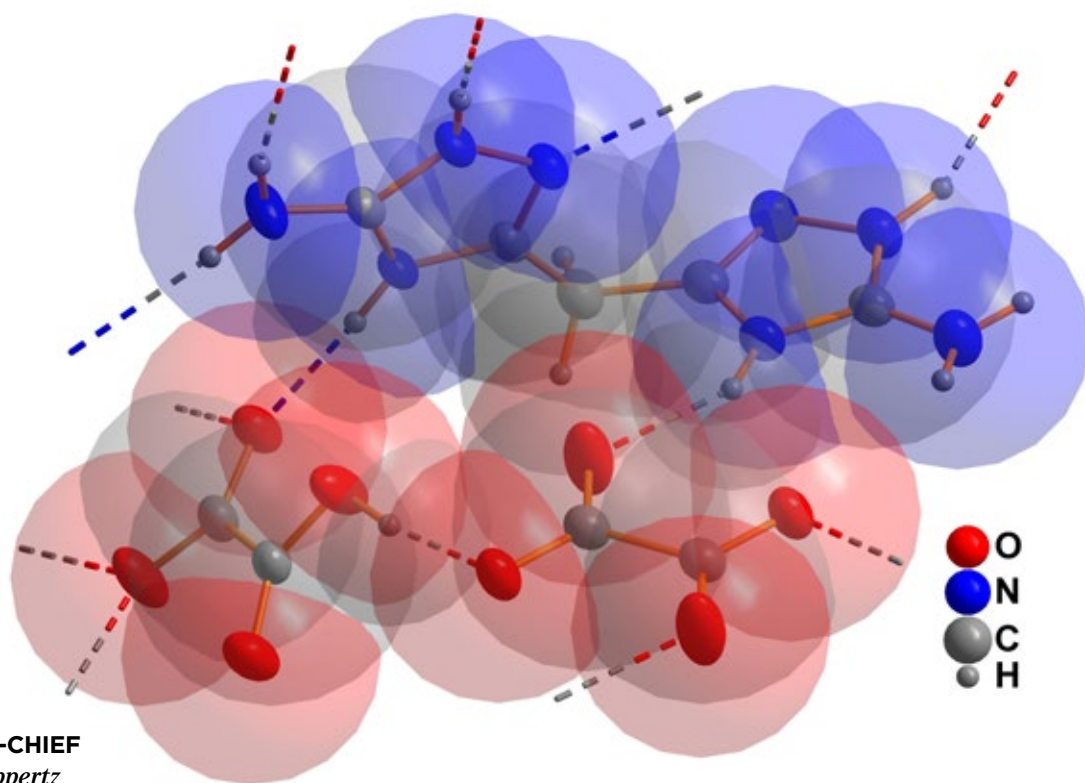


ZEITSCHRIFT FÜR KRISTALLOGRAPHIE NEW CRYSTAL STRUCTURES

**EDITOR-IN-CHIEF***Hubert Huppertz***EDITORIAL BOARD***Christian Hübschle**Oliver Janka**Andreas Lemmerer**Guido J. Reiss**Edward R. T. Tiekink*

A complex network of hydrogen bonds in the double salt bis(5-amino1,2,4-triazol-4-ium-3-yl)methane hydrogen oxalate hemioxalate

ZEITSCHRIFT FÜR KRISTALLOGRAPHIE NEW CRYSTAL STRUCTURES

EDITOR-IN-CHIEF

Hubert Huppertz

EDITORIAL BOARD

Christian Hübschle

Oliver Janka

Andreas Lemmerer

Guido J. Reiss

Edward R. T. Tiekink

DE GRUYTER

Zeitschrift für Kristallographie – New Crystal Structures was founded in 1997 as spin off of Zeitschrift für Kristallographie to meet the high demand to publish results of structure determination. All publications and their submitted CIF-data are online freely available (Open Access). Zeitschrift für Kristallographie — New Crystal Structures offers a place for researchers to present

- results of determinations of hitherto unknown crystal structures which do not justify detailed discussion of determination procedure, crystal structure, and/or structure-property relations (routine determinations and structures),
- refinement of previously published crystal structures which do not require a new description or discussion.

Further details of the structure determination can be accessed at the relevant database. Data with CSD numbers can be obtained from the Fachinformationszentrum Karlsruhe, Gesellschaft für wissenschaftlich-technische Information mbH, 76344 Eggenstein-Leopoldshafen, Germany (e-mail: crysdata@fiz-karlsruhe.de). Data with CCDC numbers can be obtained from the Cambridge Crystallographic Data Centre (CCDC), 12 Union Road, Cambridge CB2 1EZ, UK, (fax: +44-(0)1223-33 60 33 or e-mail: deposit@chemcrs.cam.ac.uk).

ONLINE-SUBMISSION New Crystal Structures (NCS) have to be submitted online as CIF-file to: <https://mc.manuscriptcentral.com/zkrist-ncs>

ABSTRACTED/INDEXED IN Baidu Scholar · Cabells Journalytics · Chemical Abstracts Service (CAS): CAPlus; SciFinder · Chimica · Chronos Hub · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC: cnpLINKer · Dimensions · DOAJ (Directory of Open Access Journals) · EBSCO (relevant databases) · EBSCO Discovery Service · Engineering Village · Genamics JournalSeek · GeoRef · GoOA · Google Scholar · Inspec · Japan Science and Technology Agency (JST) · J-Gate · Journal Citation Reports/Science Edition · JournalGuide · JournalTOCs · KESLI-NDSL (Korean National Discovery for Science Leaders) · Microsoft Academic · MyScienceWork · Naver Academic · Naviga (Softweco) · Paperbase · Polymer Library · Primo Central (ExLibris) · Publons · QOAM (Quality Open Access Market) · ReadCube · Reaxys · SCImago (SJR) · SCOPUS · Semantic Scholar · Sherpa/RoMEO · Summon (ProQuest) · TDNet · TEMA Technik und Management · Ulrich's Periodicals Directory/ulrichsweb · WanFang Data · Web of Science: Current Contents/Physical, Chemical and Earth Sciences; Science Citation Index Expanded · WorldCat (OCLC) · Yewno Discover

ISSN 1433-7266 · e-ISSN 2197-4578

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/ncrs

RESPONSIBLE EDITOR Univ.-Prof. Dr. Hubert Huppertz, University of Innsbruck, Institute of General, Inorganic and Theoretical Chemistry, Innrain 80-82, 6020 Innsbruck, Austria, e-mail: Hubert.Huppertz@uibk.ac.at

PUBLISHER Walter de Gruyter GmbH, Berlin/Boston, Genthiner Straße 13, 10785 Berlin, Germany

JOURNAL MANAGER Holger Kleessen, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05 – 348, Fax: +49 (0)30 260 05 – 184, e-mail: ZKristallogr-NCS@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Markus Kügel, De Gruyter, Rosenheimer Str. 143, 81671 München, Germany, Tel.: +49 89 76 902-424, e-mail: anzeigen@degruyter.com

© 2022 Walter de Gruyter GmbH, Berlin/Boston, Germany

TYPESETTING TNQ Technologies, Chennai, India

PRINTING Franz X. Stickle Druck und Verlag e.K., Ettenheim

COVER ILLUSTRATION Guo-tao Zhang, Hua Wang, Hong-ya Li und Biao Yan: Crystal structure of the double salt bis (5-amino-1,2,4-triazol-4-ium-3-yl)methane hydrogen oxalate hemioxalate, $C_8H_{11}N_8O_6$; in this issue pp. 715-717. DOI: 10.1515/ncrs-2022-0188.



Contents

Li-Na Gao, Ye Gu, Feng Jin, Duo Hao and Xin-Ru Zhang
Crystal structure of *N*-((3*s*,5*s*,7*s*)-adamantan-1-yl)-2-(3-benzoylphenyl)propanamide, C₂₆H₂₉NO₂ — 497

Wang Xin, Yang Liguang, Dong Yizhuo, Ye Yanlin and Wang Yifan
The crystal structure of bis(μ₂-5-chloro-2-oxido-*N*-(1-oxidopropylidene)benzohydrazonato-κ⁵*N*,*O*,*O'*:*N'*,*O'*)-octakis(pyridine-κ¹*N*)trinickel(II)
 C₆₀H₅₆Cl₂N₁₂Ni₃O₆ — 501

Jun Zheng, Sen Liu, Yaru Zhang and Xianqiang Huang
The crystal structure of 3-(4-chlorophenyl)-1,5-di-*p*-tolylpentane-1,5-dione, C₂₅H₂₃ClO₂ — 505

Fen Liu, Longgen Sun and Haiyang Huang
The crystal structure of 2,4,4-triphenyl-4*H*-benzo[*b*][1,4]oxaphosphinin-4-ium bromide – dichloromethane (1/1), C₂₇H₂₂BrCl₂OP — 509

Lin-Li Tang and Fei Zeng
The crystal structure of 2-(3,6-di-*tert*-butyl-1,8-diiodo-9*H*-carbazol-9-yl)acetonitrile, C₂₂H₂₄I₂N₂ — 513

Li-li Wang and De-dong Xue
Crystal structure of 3-phenylpropyl 2-(6-methoxynaphthalen-2-yl)propanoate, C₂₃H₂₄O₃ — 517

Yanrong Gao, Hui Ran and Wenqiang Tang
The crystal structure of (4-fluorophenyl)(5-(hydroxymethyl)furan-2-yl)methanol, C₁₂H₁₁FO₃ — 521

Xiaoke Tan and Xin Zhu
Crystal structure of the dihydrate of tetraethylammonium 1,3,5-thiadiazole-5-amido-2-carbamate, C₁₁H₂₇N₅O₄S — 525

Wei Wei, Qiong Wu, Tong-Yin Jin, Ya-Zhai Zhang, Zhao-Kun Xuan and Heng-Qiang Zhang
Crystal structure of (Z)-4-[(*p*-tolylamino)(furan-2-yl)methylene]-3-phenyl-1-*p*-tolyl-1*H*-phenyl-1*H*-pyrazol-5(4*H*)-one, C₂₈H₂₃N₃O₂ — 527

Lilei Zhang and Mengru Xie
The crystal structure of (E)-3-(2-chlorophenyl)-1-ferrocenylprop-2-en-1-one, C₁₉H₁₅ClFeO — 531

Marie Barbara Wolke and Guido J. Reiss
The pseudosymmetric crystal structure of 3-((1*R*,2*S*)-1-methylpyrrolidin-1-ium-2-yl)pyridin-1-ium hexachloridostannate(IV), C₁₀H₁₆N₂SnCl₆ — 535

Guangdi Wang, Shihao Qian, Sun Yan and Tingchi Wen
Crystal structure of (2-(1-hydroxyheptyl)octahydro-8*aH*-chromene-5,8,8*a*-triol), C₁₆H₃₀O₅ — 539

Jingxiao Zhang, Xiaoxiao Zhao and Chenyu Cai
The crystal structure of *N*-cyclohexyl-3-hydroxy-4-methoxybenzamide, C₁₄H₁₉NO₃ — 543

Mei-Feng Liu, Xing-Yu Zhang, Yi-Mei Du and Yan Chen
Crystal structure of 1-(4-hydroxybenzyl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol from *Arundina graminifolia*, C₂₂H₂₀O₄ — 547

Jingxiao Zhang, Shubin Guo, Yongnan Guo and Yanliang Yang
The crystal structure of *N*-cyclopentyl-3-hydroxy-4-methoxybenzamide, C₁₃H₁₇NO₃ — 551

De-Xing Wang and Peng Cao
The crystal structure of 2,5,5-triphenyl-3,5-dihydro-4*H*-imidazol-4-one, C₂₁H₁₆N₂O — 555

Meng-Shu Zhou and Hong-Ru Fu
Crystal structure of 1*H*-1,2,3-Triazolo[4,5-*b*]-pyridin-4-ium nitrate, C₅H₅N₅O₃ — 557

Zhang Li, Qiong Wu, Ya-Zhai Zhang, Wei-Ya Zhang, Hong-Li Chen and Heng-Qiang Zhang
Crystal structure of (Z)-4-(((4-bromophenyl)amino)(furan-2-yl)methylene)-2,5-diphenyl-2,4-dihydro-3*H*-pyrazol-3-one, C₂₆H₁₈BrN₃O₂ — 559

Xin-Sheng Xiao and Guo-Kai Jia
Crystal structure of 2-(4-methoxyphenyl)-3-methyl-1,8-naphthyridine, C₁₆H₁₄N₂O — 563

Chengxiong Yuan, Mingqing Huang, Fen Liu and Haiyang Huang
The crystal structure of 3-([1,1'-biphenyl]-2-yl)-1,2-diphenylbenzo[*b*]phosphole-1-oxide, C₃₂H₂₃OP — 565

Wang Jian-Ge and Wang Hua-Rui

The crystal structure of ammonium (E)-4-((4-carboxyphenyl)diazenyl)benzoate, $C_{14}H_{13}N_3O_4$ — 569

Guo-Tao Zhang, Hua Wang, Hong-Ya Li and Biao Yan

Crystal structure of bis(5-amino-1,2,4-triazol-4-ium-3-yl) methane sulfate, $C_5H_{10}N_8O_4S$ — 571

Zhao Mei-Li and Tai Xi-Shi

The crystal structure of phenantroline- κ^2N,N' -bis (6-phenylpyridine-2-carboxylato- κ^2N,O)copper(II), $C_{36}H_{24}N_4O_4Cu$ — 573

Gui-Ling Wu

The crystal structure of tris(6-methylpyridin-2-yl) phosphine oxide, $C_{18}H_{18}N_3OP$ — 577

Jinzheng Jian, Jianghai Ye, Guoyong Luo and Tianqiong Lang

The crystal structure of *N*-(2'-hydroxymethyl-5'-phenyl-3',4'-dihydro-[1,1':3',1''-terphenyl]-1'(2'*H*)-yl)-*P*, *P*-diphenylphosphinic amide, $C_{37}H_{34}NO_2P$ — 579

Su-Fen Bai, Jia-Xuan Liu, Shan-Shan Li, Chun-Yu Tian and Xiao-Jin La

Crystal structure of (E)-4-(6-(4-(2-(pyridin-4-yl)vinyl) phenoxy)pyrimidin-4-yl)morpholine, $C_{21}H_{20}N_4O_2$ — 583

Lamya H. Al-Wahaibi, Hazem A. Ghabbour, Fatmah A. M. Al-Omary, Edward R. T. Tiekink and Ali A. El-Emam

Crystal structure of 5-(adamantan-1-yl)-3-[(4-trifluoromethylanilino)methyl]-2,3-dihydro-1,3,4-oxadiazole-2-thione, $C_{20}H_{22}F_3N_3OS$ — 587

Zhao-Yu Ma, Wan Lu, Yu-Chao Guo and Ying-Jiao Li

Crystal structure of 2,2-dichloro-1-(4-chloro-1*H*-indol-1-yl) ethan-1-one, $C_{10}H_6Cl_3NO$ — 593

Zhi-Qiang Lu

The crystal structure of 4-(((3-bromo-5-(trifluoromethyl) pyridin-2-yl)oxy)methyl)benzonitrile, $C_{28}H_{16}Br_2F_6N_4O_2$ — 595

Hang Ma, Qiang Tian and Banglong Wan

The crystal structure of 1*H*-benzimidazole-2-carboxamide, $C_8H_7N_3O$ — 599

Tsonko Kolev, Martina I. Peeva, Ivan P. Bogdanov, Iliyan V. Ognyanov, Atanas G. Atanasov and Nikolay T. Tzvetkov

The crystal structure of Histidinium hydrogensquarate, $C_{10}H_{11}N_3O_6$ — 601

Mengbing Cui, Yong Li, Heng Chen, Hui Wang and Yan Zeng

The crystal structure of 3-amino-5-carboxypyridin-1-ium iodide, $C_6H_7IN_2O_2$ — 605

Ze-Sen Jin, E. Liu, Xiao-Jing Liu, Fang-Fang Jian and Tongling Liang

Crystal structure of (E)-amino(2-(3-ethoxy-4-hydroxybenzylidene)hydrazineyl)methaniminium nitrate hemihydrate $C_{10}H_{16}N_5O_{5.5}$ — 607

Wang Yong, Wu Bingheng, Yuan Jun, Cao Duanlin, Wang Jianlong and Chen Lizhen

Crystal structure of 1,2-bis(4,5-dinitro-1*H*-imidazol-1-yl) ethane, $C_8H_6N_8O_8$ — 611

Dong-Feng Hong, Meng-Fei Li and Tian-Tian Chu

The crystal structure of diaqua-bis(pyrazolo[1,5-*d*] pyrimidine-3-carboxylato- κ^2N,O)manganese(II), $C_{14}H_{12}N_6O_6Mn$ — 613

Lilei Zhang, Deming Chang and Mengdan Dun

The crystal structure of catena-poly[aqua-2,2'-bipyridine- κ^2N,N' -(μ_2 -5-ethoxyisophthalato- $\kappa^4O,O':O'',O'''$) cadmium(II)] monohydrate, $C_{20}H_{20}CdN_2O_7$ — 615

Jingxiao Zhang, Miao Gu and Xinyu Bai

The crystal structure of (1*S*,3*R*)-1-(4-isopropylphenyl)-3-(methoxycarbonyl)-2,3,4,9-tetrahydro-1*H*-pyrido[3,4-*b*] indol-2-iumchloride monohydrate, $C_{22}H_{27}ClN_2O_3$ — 619

Yanjiao Wang, Xiaoqin Tang and Bin Liu

Crystal structure of 1-isopropyl-3-(prop-1-en-2-yl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine, $C_{11}H_{15}N_5$ — 623

Xi-Shi Tai and Li-Hua Wang

The crystal structure of (2,2'-bipyridine- κ^2N,N')-bis(6-phenylpyridine-2-carboxylate- κ^2N,O)manganese(II)] monohydrate, $C_{34}H_{26}N_4O_5Mn$ — 627

Penghua Liu, Jiangtao Xing, Zhiqiang Wang and Baomin Wang

Crystal structure of the cocrystal 1,3,5,7-tetranitro-1,3,5,7-tetrazoctane – 2,3-dihydroindole (1/1), $C_{12}H_{17}N_9O_8$ — 631

Zhi-Qiang Xiong, Ling Yang, Shu-Zhen Xiao, Chen-Yu Yang and Xu-Liang Nie

Crystal structure of 3-acetyl-6-hydroxy-2H-chromen-2-one monohydrate, $C_{11}H_{10}O_5$ — 635

Artur Mirocki

Crystal structure of 6,9-diamino-2-ethoxyacridinium 3,5-dinitrobenozate – dimethylsulfoxide – water (1/1/1), $C_{24}H_{27}N_5O_9S$ — 639

Devin J. Angevine and Jason B. Benedict

The crystal structure of 4,4'-bipyridinium bis-(2-hydroxy-3-methoxybenzoate), $2(C_8H_7.68O_4) \cdot C_{10}H_{8.64}N_2$ — 643

Qiong Wu, Li Zhang, Jun-Jie Gao, Liu Yang, Heng-Qiang Zhang, Li-Li Fan and Ya-Zhai Zhang
Crystal structure of (Z)-4-(((4-fluorophenyl)amino)(furan-2-yl)methylene)-5-methyl-2-phenyl-2,4-dihydro-3H-pyrazol-3-one — 647

Wei Wei, Ya-Zhai Zhang, Heng-Qiang Zhang, Qi-Ying Zhang, Zhao-Kun Xuan and Hong-Li Chen
The crystal structure of bis(4-chloro-2-(((2-chloroethyl)imino)methyl)phenolato- κ^2N,O)-oxidovanadium(IV), $C_{18}H_{16}Cl_4N_2O_3V$ — 651

Xiao-Liang Ji, Feng Xie and Yi-Biao Li
The crystal structure of 17-(bromoethynyl)-17-hydroxy-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-one, $C_{21}H_{27}BrO_2$ — 655

Zhi-Qiang Lu
The crystal structure of 4-((6-fluoropyridin-2-yloxy)methyl)benzonitrile, $C_{13}H_9FN_2O$ — 659

Guo-Kai Jia and Xian-You Yuan
Crystal structure of (Z)-2-(1-bromo-2-phenylvinyl)-5-ethyl-2-methyl-1,3-dioxane-5-carboxylic acid, $C_{15}H_{17}Br_1O_4$ — 661

Zhongjun Gao and Haifeng Zhang
Crystal structure of *catena*-poly[tribenzyl- $\kappa^1C-(\mu_2-6$ -oxidopyridin-1-ium-3-carboxylato- $\kappa^2O:O'$)tin(IV)-dichloromethane-methanol (1/1/1), $C_{29}H_{31}Cl_2NO_4Sn$ — 663

Ji-Xing Zhao, Lei-Fang Wu and Da-Qun Chen
Crystal structure of bis{2-(*tert*-butyl)-6-((*E*)-((4-((*E*-1-(methoxyimino)ethyl)phenyl)imino)methyl)phenolato- κ^2N,O)zinc(II), $C_{40}H_{46}N_4O_4Zn$ — 667

Xiao-Yu Zhang, Xin-Fang Liu, Bei-Bei Zhao and Shi-Jie Huang
Crystal structure of diaqua-bis(μ_2 -2-carboxy-3,4,5,6-tetrafluorobenzoato- $\kappa^2O:O'$)-bis(phenanthroline- κ^2N,N')-bis(μ_2 -3,4,5,6-tetrafluorophthalato- $\kappa^3O:O,O'$)dieuropium(III) – phenanthroline (1/2), $C_{40}H_{19}EuF_8N_4O_9$ — 671

Li-Hua Wang and Xi-Shi Tai
The crystal structure of diaqua-bis(6-phenylpyridine-2-carboxylato- κ^2N,O) manganese(II) – water – dimethylformamide (1/2/1), $C_{27}H_{31}N_3O_9Mn$ — 675

Dong-Feng Hong, Ye Chen and Wen-Li Zhu
The crystal structure of bis(pyrazolo[1,5-*a*]pyrimidine-3-carboxylato- κ^2N,O)-copper(II), $C_{14}H_8N_6O_4Cu$ — 679

Guang-Zhen Liu, Xiu-Jin Wang and Wen-Hui Wei
Crystal structure of poly[(μ_2 -1-(1-imidazolyl)-4-(imidazol-1-ylmethyl)benzene- $\kappa^2N:N'$)-(3-pyridazine-4,5-dicarboxylate- $\kappa^3O:O':M$)]copper(II) hydrate, $C_{19}H_{16}CuN_6O_5$ — 681

Xin-Fang Liu, Jun-Ya Song, Bei-Bei Zhao and Shi-Jie Huang
Crystal structure of acrinidinium tetrafluorohydrogenphthalate, $C_{21}H_{11}F_4NO_4$ — 685

Aqilah Abdul Latiff, Yan Yi Chong, Wun Fui Mark-Lee and Mohammad B. Kassim
Crystal structure of 2-(1H-pyrazol-3-yl- κN)pyridine- κN -bis(2-(2,4-difluorophenyl)pyridinato- κ^2C,N)iridium(III) sesquihydrate, $C_{30}H_{18}F_4IrN_5 \cdot 1.5[H_2O]$ — 689

Guo-Kai Jia and Xian-You Yuan

Crystal structure of 2-(2-hydroxy-5-nitrophenyl)-5-methyl-1,3-dioxane-5-carboxylic acid, $C_{12}H_{13}N_1O_7$ — 693

Qi-Ming Qiu, Jian-Biao Song, Li Yan, Ai-Guo Dong, Chuan-Tao Li and Zhi-Yuan Zheng

The crystal structure of 1,2-bis(pyridinium-4-yl)ethane diperchlorate, $C_{12}H_{14}N_2 \cdot 2ClO_4$ – a second polymorph — 695

Zhang Hua-Xiang and Tai Xi-Shi

The crystal structure of [(1,10-phenantroline- κ^2N , N')-bis(6-phenylpyridine-2-carboxylato- κ^2N, O) manganese(II)] monohydrate, $C_{36}H_{26}N_4O_5Mn$ — 697

Fan Qi and Xu-Qiong Xiao

Crystal structure of 1,2-bis(2,2,3,3,5,5,5-heptamethyl-1,1,4,4-tetrakis(trimethylsilyl)pentasilan-1-yl)ditellane, $C_{38}H_{114}Si_{18}Te_2$ — 701

Yuan Jun, Wu Bingheng, Wang Yong, Wang Jianlong, Cao Duanlin and Chen Lizhen

Crystal structure of 1,2-bis(2,4-dinitro-1*H*-imidazol-1-yl)ethane – dimethylformamide (1/1), $C_{11}H_{13}N_9O_9$ — 705

Tianhao Liu and Menglan Lv

Crystal structure of (Z)-3-((*tert*-butylamino) methylene)-2-(2-hydroxynaphthalen-1-yl) chroman-4-one, $C_{24}H_{23}NO_3$ — 707

Ji-Xing Zhao, Da-Qun Chen and Lei-Fang Wu

Synthesis and crystal structure of (*E*)-1-(4-(((*E*)-3-(*tert*-butyl)-2-hydroxybenzylidene)amino)phenyl)ethan-1-one *O*-ethyl oxime, $C_{21}H_{26}N_2O_2$ — 711

Guo-tao Zhang, Hua Wang, Hong-ya Li and Biao Yan

Crystal structure of the double salt bis(5-amino-1,2,4-triazol-4-ium-3-yl)methane hydrogen oxalate hemioxalate, $C_8H_{11}N_8O_6$ — 715

Liu Guang-Zhen and Ya-Di Li

Hydrothermal synthesis and crystal structure of *catena*-poly[*diaqua*-bis(μ_2 -4-[(4-pyridinylmethyl)amino] benzoato- $\kappa^2N:O$)cobalt(II)]–1,2-bis(4-pyridyl)ethene–water (1/1/1), $C_{50}H_{50}N_8O_8Co$ — 719

Dong-Li Jiang, Lian-Lian Fan, Peng Yin, Di Liang and Rui Li

Crystal structure of 3-(3-bromophenyl)-1',3'-dimethyl-2'*H*,3*H*,4*H*-spiro[furo[3, 2-*c*]chromene-2,5'-pyrimidine]-2',4,4',6'(1'*H*,3'*H*) tetraone, $C_{22}H_{15}BrN_2O_6$ — 723

Gui-Lian Li, Meng-Ni Liu, Gao-Jing Du and Jin-Yuan Zhang

The crystal structure of poly[aqua-(μ_2 -4,4'-bis(imidazolyl)biphenyl- $\kappa^2N:N'$)-(2,3-nitrobenzene-1,2-dicarboxylato- $\kappa^2O:O'$)]copper (II) hydrate, $C_{26}H_{21}N_5O_8Cu$ — 725

Cheng-Jun Jiang and Ying-Fan Xia

The crystal structure of bis(4-(6-carboxy-8-ethyl-3-fluoro-5-oxo-5,8-dihydro-1,8-naphthyridin-2-yl)piperazin-1-ium) adipate tetrahydrate, $C_{36}H_{52}F_2N_8O_{14}$ — 729

Hai-Lin Chen, Xiu-Xiang Huang, Jian-Jing Lan, Dong-Mei Yao, Yan-Ping Wang and Qiu-Ping Liu

Synthesis and crystal structure of poly[aqua (μ_4 -(1*R*,2*S*,4*R*)-4-hydroxy-1-((7-hydroxy-3-(4-hydroxy-3-sulfonatophenyl)-4-oxo-4*H*-chromen-8-yl)methyl)pyrrolidin-1-ium-2-carboxylate- $\kappa^4O:O':O'':O''')$ sodium(I)] monohydrate, $C_{21}H_{22}NNaO_{12}S$ — 733

Joel M. Gichumbi, Sizwe J. Zamisa and Holger B. Friedrich

Crystal structure of chlorido-(η^6 -toluene)(2,2'-bipyridine- κ^2N,N')ruthenium(II) hexafluorophosphate, $C_{17}H_{16}ClN_2RuPF_6$ — 737

Hong Li, Can-Kai Lin, Rong-Chun Huang, Kai-Xin Chen, Hai-Xuan Liang, Yan-Jia Cai, Zi-Feng Chen, Yi-Wen Tao and Bo Ding

The crystal structure of (*R*)-6-hydroxy-8-methoxy-3-methylisochroman-1-one, $C_{11}H_{12}O_4$ — 741

Qiong Wang and Guang-Chuan Ou

Crystal structure of *catena*-poly[(5,5,7,12,12,14-hexamethyl -1,4,8,11-tetraazacyclotetradecane- κ^4N, N', N'', N''')nickel(II)-(2-perchlorato- $\kappa^2O:O'$)] 3,5-dicarboxybenzoate – methanol (1/2), $C_{27}H_{49}ClN_4NiO_{12}$ — 745

Mingzhi Miao and Ji Li

The crystal structure of 4-(chloromethyl)benzonitrile, C_8H_6ClN — 749

Xia Wang, Yani Dong, Wulan Zeng, Xiaolong Zhang, Mengying Zhou and Keyu Chen

The crystal structure of dimethylammonium 8-[(7,9-dioxo-6,10-dioxaspiro[4.5]decan-8-ylidene)methyl]-9-oxo-6,10-dioxaspiro[4.5]dec-7-en-7-olate, $C_{19}H_{25}NO_8$ — 751

Yucong Liu, Pingqiao Wang and Haixin Ding

Crystal structure of (2*R*,3*S*,4*S*,5*R*,6*S*)-2-(acetoxymethyl)-6-((1-acetyl-5-bromo-4-chloro-1*H*-indol-3-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate hemihydrate
C₂₄H₂₅BrClNO₁₁ — 755

Yilmaz Aksu, Elisabeth Irran and Sevil Aksu

The crystal structure of the co-crystal tetrakis[2-(tris(4-methoxyphenyl)stannyl)ethyl]silane – tetrahydrofuran – toluene – tetrahydrofuran (1/1/1),
C₁₀₃H₁₁₆O₁₃SiSn₄ — 759

Tiantian Wang, Yizi Su, Yunyun Feng, Xin Deng and Yuxing Tan

Crystal structure of methyl 3-(1,3-dioxo-1*H*-benzo[*de*]isoquinolin-2(3*H*)-yl)propanoate, C₁₆H₁₃NO₄ — 765

Chun-Mei Guo, Sha Chen, Mei-Jun Chu, Min Wan and Xu-Liang Nie

Crystal structure of ethyl (Z)-3-amino-2-cyano-3-(2-oxo-2*H*-chromen-3-yl)acrylate, C₁₅H₁₂N₂O₄ — 767

Wei Peng, Jicai Yang, Yu Yue, Xin Deng and Wujiu Jiang

Crystal structure of methyl 2-(1,3-dioxo-1*H*-benzo[*de*]isoquinolin-2(3*H*)-yl)acetate, C₁₅H₁₁NO₄ — 769

Xiao-Zhou Huang and Jiu-Fu Lu

Crystal structure of *catena*-poly[diaqua-bis(μ₂-1,3-di(1*H*-imidazol-1-yl)propane-κ²*N:N'*)cobalt(II)] tetrafluoroterephthalate, C₂₆H₂₈N₈O₆F₄Co — 773