

Publikationsliste

1997 - 2000

1. I. M. Müller, W. S. Sheldrick;
Tetramethylcyclotetraarsoxane Bridged Copper(I) Halides with Porous Sheet and Framework Structures ∞ [CuX{cyclo-(MeAsO)₄}]
(X = Cl, Br, I) and ∞ [Cu₃X₃{cyclo-(MeAsO)₄}₂] (X = Cl, Br)
Z. Anorg. Allg. Chem. **1997**, 623, 1399.
2. I. M. Müller, W. S. Sheldrick;
CuX (X = Br, I) Oligomers and Polymeric Chains in Tetramethylcyclotetraarsoxane-Bridged Networks
[Cu_nX_n{cyclo-(CH₃AsO)₄}₂] (n = 4, 6, 8)
Z. Naturforsch. **1997**, 52b, 951.
3. I. M. Müller, T. Röttgers, W. S. Sheldrick;
Porous copper(I) coordination polymers containing both the cyclic ion ligating agent methylcycloarsoxane (MeAsO)₄ and rigid aromatic heterocycles as spacers
Chem. Commun. **1998**, 823.
4. I. M. Müller, W. S. Sheldrick;
Metal-Mediated Conversion of Methylcycloarsoxane (CH₃AsO)_n to Macrocyclic Octa- and Decanuclear Ligands. Trigonal Bipyramidal Coordination of Trivalent Arsenic.
Eur. J. Inorg. Chem. **1998**, 1999.
5. A. Zimmer, I. M. Müller, V. Huch, A. Caneschi, D. Catteschi, K. Hegetschweiler;
Linear Primary Polyamines as Building Blocks for Coordination Polymers. 1. Ligand Synthesis and Metal Complexes of 1,2,3-Triaminopropane
Eur. J. Inorg. Chem. **1998**, 2079.
6. W. S. Sheldrick, I. M. Müller;
Alkylcycloarsoxanes and -arsathianes, ambidentate macrocyclic ligands of variable metal-mediated ring size
Coord. Chem. Rev. **1999**, 182, 125.
7. I. M. Müller, J. Mühle;
Struktur und Koordinationsverhalten des sterisch anspruchsvollen Phenylcycloarsoxan
Z. Anorg. Allg. Chem. **1999**, 625, 336.
8. I. M. Müller, W. S. Sheldrick;
Tetramethylcyclotetraarsoxane Bridging of Copper(I) Halide Units Cu₆Br₆, Cu₂I₂, [Cu₆I₈]²⁻ and ∞ [Cu₃I₄⁻] in Porous Coordination Polymers.
Z. Anorg. Allg. Chem. **1999**, 625, 443.

9. I. M. Müller, R. Robson;
A New Class of Easily Obtained Carbonate-Related μ_3 Ligands Binding Three Metal Centres at Chelating Sites and a Derived Protein-Sized Doughnut-Shaped Coordination Oligomer
Angew. Chem. **2000**, *112*, 4527; *Angew. Chem. Int. Ed.* **2000**, *39*, 4357.
10. S. Gockel, A. Haas, V. Probst, R. Boese, I. Müller;
Contributions to bis(perfluoroalkyl) Chalkogenide Chemistry: Preparation of $(Rf)_2SeO$ [$Rf = C_2F_5, (CF_3)_2CF, n-C_4F_9$], $(Rf')_2TeX_2$ [$X = F, Cl: Rf' = n-C_3F_7, (CF_3)_2CF, n-C_4F_9$; $X = Br: Rf' = n-C_3F_7, n-C_4F_9$], $(CF_3)_2Te(NSO)_2$ and $(C_2F_5)_2Te(OH)NO_3$
J. Fluorine Chem. **2000**, *102*, 301.

2001 – 2006 (unter Namen Müller)

11. A. Zimmer, D. Kuppert, T. Weyermüller, I. Müller, K. Hegetschweiler;
Part 3 : Linear Primary Polyamines as Building Blocks for Coordination Polymers. Complex Formation of Ni^{II} , Cu^{II} , Pd^{II} and Co^{II} with 1,2,3,4-Butanetetramine
Chem. Eur. J. **2001**, *7*, 917.
12. D. Kuppert, J. Sander, C. Roth, M. Wörle, T. Weyhermüller, G. Reiss, U. Schilde, I. Müller, K. Hegetschweiler;
The Coordination Chemistry of cis-3,4-Diaminopyrrolidine and Related Polyamines
Eur. J. Inorg. Chem. **2001**, 2525.
13. J. Sander, K. Hegetschweiler, B. Morgenstern, A. Keller, W. Amrein, T. Weyhermüller, I. M. Müller;
T-symmetrical Icosahedra: A new Type of Chirality in Metal Complexes
Angew. Chem. **2001**, *113*, 4307; *Angew. Chem. Int. Ed.* **2001**, *40*, 4179.
14. I. M. Müller, R. Robson, F. Separovic;
A Metallosupramolecular Capsule with the Topology of the Tetrahedron, 3^3 , Assembled from Four Guanidine-based Ligands and Twelve Cadmium Centres
Angew. Chem. **2001**, *113*, 4519; *Angew. Chem. Int. Ed.* **2001**, *40*, 4385
15. R. Stodt, S. Gencaslan, I. M. Müller, W. S. Sheldrick;
Preparation, Reactivity and Peptide Labelling Properties of $(\eta^6\text{-Arene})ruthenium(II)$ Complexes with Pendant Carboxylate Groups
Eur. J. Inorg. Chem. **2003**, 1873.
16. R. A. Fischer, D. Weiss, M. Winter, I. M. Müller, H. D. Kaesz, N. Fröhlich, G. Frenking;
The reaction of the group-13 alkyls ER_3 ($E=Al, Ga, In$; $R=CH_2t\text{-Bu}, CH_2SiMe_3$) with the platinum-complex $[(dcpe)Pt(H)(CH_2t\text{-Bu})]$.
J. Organomet. Chem. **2004**, *689*, 4611.

17. I. M. Müller, S. Spillmann, H. Franck, R. Pietschnig;
Rational Design of the First Closed Coordination Capsule with Octahedral Outer Shape
Chem. Eur. J. **2004**, *10*, 2207.
18. I. M. Müller, D. Möller, C. Schalley;
Rational Design of Tightly Closed Coordination Tetrahedra Stable in the Solid State, in Solution and in the Gas Phase.
Angew. Chem. **2005**, *117*, 485; *Angew. Chem. Int. Ed.* **2005**, *44*, 480
19. I. M. Müller, S. Oczko;
Ein- und zweikernige Übergangsmetallkomplexe mit Methylcycloarsoxan
Z. Anorg. Allg. Chem. **2005**, 631, 110.
20. I. M. Müller, D. Möller;
A New Ligand for the Formation of Triangular Building Blocks in Supramolecular Chemistry.
Eur. J. Inorg. Chem. **2005**, 257.
21. I. M. Müller, D. Möller, K. Föcker;
From a Monomer to a Protein-Sized and Doughnut-Shaped Coordination Oligomer – the Influence of Side Chains of C₃-Symmetric Ligands in the Supramolecular Chemistry.
Chem. Eur. J. **2005**, *11*, 3318.
22. I. M. Müller, D. Möller;
Rational Design of a Coordination Cage with Trigonal Bipyramidal Shape, Formed by Thirty Three Building Units
Angew. Chem. **2005**, *117*, 3029; *Angew. Chem. Int. Ed.* **2005**, *44*, 2969.
23. G. Dyker, M. Mastalerz, I. M. Müller;
Electron-rich Cavitands via Fourfold Sonogashira Cross-Coupling Reaction of Calix[4]arenes and Bromopyridines - Effect of the Nitrogen Position on Complexation Abilities
Eur. J. Org. Chem. **2005**, 3801.
24. G. Dyker, M. Mastalerz, I. M. Müller, K. Merz, K. Koppe;
Solvent dependent polymorphism of trispyridoxycalix[4]arene: cone- vs partial-cone conformation
Eur. J. Org. Chem. **2005**, 4963.
25. D. Hildebrandt, W. Hüggenberg, M. Kanthak, T. Plöger, I. M. Müller, G. Dyker;
A Platinum-Catalyzed Annulation Reaction to Medium-Sized Rings
Chem. Commun. **2006**, 2260.

2006 (Oppel) - 2009

26. M. Mastalerz, G. Dyker, U. Flörke, G. Henkel, I. M. Oppel, K. Merz;
Oligophenylcalix[4]arenes as Potential Precursors for Funnelenes and Calix[4]triphenylenes: Syntheses and Preliminary Cyclodehydration Studies
Eur. J. Org. Chem. **2006**, 4951.
27. G. Dyker, K. Merz, I. M. Oppel, E. Muth;
Palladium-Catalyzed Naphthylation of Acenaphthylene
SynLett **2007**, 897.
28. M Scharwitz, I. M. Oppel, W. S. Sheldrick;
Bis(μ -diethyldithiocarbamate)bis(η^5 -pentamethylcyclopentadienyl)iridium(III)] bis(perchlorate)
Acta Cryst. **2007**, E63, m2065.
29. R. W. Seidel, M. V. Winter, I. M. Oppel;
Bis[(E)-4-(Hydroxyiminomethyl)-pyridinium] oxalate
Acta Cryst. **2008**, E64, o181.
30. I. M. Oppel, K. Föcker;
Rational design of a double-walled tetrahedron containing two different C₃-symmetric ligands
Angew. Chem. **2008**, 120, 408; *Angew. Chem. Int. Ed.* **2008**, 47, 402.
31. M. Filthaus, I. M. Oppel, H. Bettinger;
Supramolecular structures and spontaneous resolution: the case of ortho substituted phenylboronic acids
Org. Biomol. Chem. **2008**, 6, 1201.
32. H. Bettinger, M. Filthaus, H. Bornemann, I. M. Oppel;
Metal-Free Conversion of Methane and Cycloalkanes to Amines and Amides Employing a Single Nitrogen Center
Angew. Chem. **2008**, 4822; *Angew. Chem. Int. Ed.* **2008**, 47, 4744.
33. D. Kadzimirsz, D. Kramer, L. Sripanom, I. M. Oppel, P. Rodziewicz, N. L. Doltsinis, G. Dyker;
A Domino Annulation Reaction under Willgerodt-Kindler Conditions
J. Org. Chem. **2008**, 73, 4644.
34. M. Mastalerz, H. J. E. Rivera, W. Hüggenberg, K. Merz, I. M. Oppel, G. Dyker;
Pyridoxycalix[4]arene Palladium(II)-Complexes as tectones for Self-Inclusion-Polymers
Cryst. Eng. Commun. **2008**, 10, 1120

35. I. N. Pantcheva, M. I. Mitewa, W. S. Sheldrick I. M. Oppel, R. Zhorova, P. Dorkov;
First divalent metal complexes of the polyether ionophore monensin A: X-ray structures of [Co(Mon)₂(H₂O)₂] and [Mn(Mon)₂(H₂O)₂] and their bactericidal properties;
Curr. Drug Disc. Techn. **2008**, 5, 154;
36. H. Waldmann, V. Khedkar, H. Dueckert, M. Schuermann, I. M. Oppel, K. Kumar;
Asymmetric synthesis of natural product inspired tricyclic benzopyrones by an organocatalyzed annulation reaction.
Angew. Chem. **2008**, 6975; *Angew. Chem. Int. Ed.* **2008**, 47, 6869.
37. B.G. Bag, P.P. Dey, S.K.Dinda, W.S. Sheldrick, I. M. Oppel;
A simple route for renewable nano-sized arjunolic and asiatic acids and self-assembly of arjuna-bromolactone
Beilstein J. Org. Chem. **2008**, 4, 24;
38. H. Zhang, I. M. Oppel, M. Spiteller, K. Günther, G. Böhmler, S. Zühlke;
Enantiomers of a Nonylphenol Isomer: Absolute Configurations and Estrogenic Potencies
Chirality **2009**, 21, 271
39. R. W. Seidel, I. M. Oppel;
1D and 2D Solid-State Metallosupramolecular Arrays of Freebase Porphyrins, Peripherally Linked by Zinc and Manganese Ions
Struc. Chem. **2009**, 20, 121
40. T. Berends, L. Iovkova, G. Bradtmöller, I. M. Oppel, M. Schürmann, K. Jurkschat;
L₂Sn(OCH₂CH₂)₂NR (L = lone pair, W(CO)₅, R = Me, t-Bu). The Molecular Structures of 5-aza-2,8-dioxo-1-stannabicyclo[3.3.0]^{1,5}octanes and Their Tungstenpentacarbonyl Complexes
Z. Allg. Anorg. Chem. **2009**, 635, 369
41. T. Kolev, R. Bakalska, R.W. Seidel, H. Mayer-Figge, I. M. Oppel, M. Spiteller, W.S. Sheldrick, B.B. Koleva;
Novel codeinone derivatives via Michael addition of barbituric acids
Tetrahedron: Asymmetry **2009**, 20, 327
42. A. C. Schulze, K. Föcker, I. M. Oppel;
Koordinationskäfige als Nanolabore
Nachr. Chem. **2009**, 67, 507
43. R. W. Seidel, I. M. Oppel;
Di- μ -chlorido-bis{aquachlorido[2,2'-thiobis(pyridine N-oxide)- κ O]copper(II)}
Acta Cryst. **2009**, E65, m460

44. R. W. Seidel, I. M. Oppel;
catena-Poly[[[aqua(ethylenediamine- κ^2 N,N')](nitrate- κ O)copper(II)]- μ -4,4'-dithiodipyridine- κ^2 N:N'] nitrate monohydrate]
Acta Cryst. **2009**, C65, m235
45. C. Dietz, R. W. Seidel, I. M. Oppel;
Crystal structure of catena-(2-sulfato)-diaqua-(1,10-phenanthroline)-cobalt(II), Co(H₂O)₂(C₁₂H₂N₂)SO₄ at 106 K and refinement of crystal structure of catena-(2-sulfato)-diaqua-(1,10-phenanthroline)copper(II), Cu(H₂O)₂(C₁₂H₂N₂)SO₄ at 106 K
Z. Kristallogr. NCS **2009**, 224, 509
46. M. Pillekamp, W. Alachraf, I. M. Oppel, G. Dyker;
Cage Hydrocarbons Derived from Dibenzosuberone
J. Org. Chem. **2009**, 74, 8355
47. M. Pillekamp, A. Aniol, J. Heppekausen, S. Neukirchen, S. Seel, I. M. Oppel, G. Dyker;
Palladium-catalyzed four-membered ring annelation reactions at dibenzobarrelene
Synlett **2009**, 133
48. B. Koleva, R. W. Seidel, T. Kolev, S. Zareva, H. Mayer-Figge, I. M. Oppel, W.S. Sheldrick;
Hydrogen oxalate and squarate salts of (E)-4-(hydroxyiminomethyl)pyridine - Crystal structures, spectroscopic and theoretical elucidation
J. Mol. Struct. **2009**, 921, 163
49. M. Mastalerz, I. M. Oppel, K. Merz, G. Dyker;
Tetrapyridoxycalix[4]arene and its copper(II) complex: An ionic crystal engineering tecton for self-inclusion polymers
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50. R. W. Seidel, R. Goddard, K. Föcker, I. M. Oppel;
Supramolecular isomersism of self-complementary zinc-5,10,15,20-tetra(4-pyridyl)porphyrin in the presence of dimethylformamide
CrystEngComm **2010**, 12, 387
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2D metallosupramolecular arrays of Zinc-5,10,15,20-tetra(4-pyridyl)porphyrin via cooperative self-complementary coordination and peripheral linkage
Z. Anorg. Allg. Chem. **2010**, 636, 446
52. R. W. Seidel, I. M. Oppel;
Assembly of a rhomboidally distorted (4,4)-net based polymeric sheet structure bearing copper(II) 5,10,15,20-tetra(4-pyridyl)porphyrin
CrystEngCommun **2010**, 12, 1051

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Synthesis and Structural Characterization of 9-Azido-9-Borafluorene: Monomer and Cyclotrimer of a Borole Azide
Inorg. Chem. **2010**, 49, 4499
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Structural characterization of racemic 1,1'-bi-(2-naphthol) monopivalate and its 6-nitro derivative
J. Mol. Struct. **2010**; 980, 245
55. W. Hüggenberg, A. Seper, I. M. Oppel, G. Dyker;
Multi-fold Photocyclization Reactions of Styrylcalix[4]arenes
Eur. J. Org. Chem. **2010**, 6786
56. M. Mastalerz, M. W. Schneider, I. M. Oppel, O. Presly;
A Salicylbisimine Cage Compound with an Exceptional High Surface Area and High Selectivity for CO₂/CH₄ Adsorption
Angew. Chem. **2011**, 123, 1078; *Angew. Chem. Int. Ed.* **2011**, 50, 1046
57. R. W. Seidel, C. Dietz, I. M. Oppel;
A Polymeric Arched Chain and a Chairlike M₂L₂-Metallamacrocycle Crystal Engineered of [M(phen)]₂⁺ (M = Cu, Cd; phen = 1,10-phenanthroline) Corner Units and the Bent Ligand 4,4'-Dithiodipyridine
Z. Anorg. Allg. Chem. **2011**, 637, 94
58. R. W. Seidel, R. Goddard, C. Hoch, J. Breidung, I. M. Oppel;
On the structure of unsolvated free-base 5,10,15,20-tetra(3-pyridyl)porphyrin
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Chelated Ruthenium Complexes of Functionalized Pentaaryl-cyclopentadienes
Organomet. **2011**, 30, 215
60. R. W. Seidel, J. Graf, R. Goddard, I. M. Oppel;
Redetermination of cyclo-tetrakis(μ-5,10,15,20-tetra-4-pyridylporphyrinato)tetrazinc(II) dimethylformamide octasolvate trihydrate at 100 K
Acta Cryst. **2011**, E67, m236
61. M. Mastalerz, S. Sieste, M. Cenić, I. M. Oppel;
Two-Step Synthesis of Hexaammoniumtriptycene – An Air-Stable Building Block for Condensation Reactions to extended Triptycene Derivatives
J. Org. Chem. **2011**, 76, 6389
62. R. W. Seidel, I. M. Oppel;
μ-2,2',6,6'-tetramethyl-4,4'-bipyridine-κ²N1:N1'-bis[(diethylentriamine-κ³N,N',N'')]palladium(II)] tetranitrate
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Supramolecular single-stranded calix[4]arene helices – towards a crystal engineering approach of homochiral assemblies
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Structural diversity of Metallosupramolecular Assemblies from Cu(phen)²⁺ (phen = 1,10-phenanthroline) Building Blocks and 4,4'-Bipyridine.
Z. Anorg. Allg. Chem. **2011**, *637*, 1545
65. R. W. Seidel, C. Dietz, I. M. Oppel;
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Decorating the lanthanide terminus of self-assembled heterodinuclear lanthanum(III)/gallium(III) helicates
Dalton Trans. **2011**, *40*, 12067
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A Molecular Antenna Coordination Polymer from Cadmium(II) and 4,4'-Bipyridine Featuring Three Distinct Polymer Strands in a Crystal
Polymers, **2011**, *3*, 1458
68. M. Mastalerz, I. M. Oppel;
Synthesis of Tetrahedral Shape-Persistent Tetranuclear Metal-Salophens
Eur. J. Org. Chem. **2011**, 5971
69. M. W. Schneider, I. M. Oppel, H. Ott, L. G. Lechner, H.-J. S. Hauswald, R. Stoll, M. Mastalerz;
Periphery-Substituted [4+6] Salicylbisimine Cage Compounds with Exceptional High Surface Areas – Influence of the Molecular Structure on Nitrogen Sorption Properties
Chem. Eur. J. **2012**, *18*, 836
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Container Molecules Based on Imine Type Ligands
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71. M. W. Schneider, I. M. Oppel, M. Mastalerz;
Exo-functionalized Shape-Persistent [2+3] Cage Compounds – Influence of Molecular Rigidity on Formation and Permanent Porosity
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74. M. Mastalerz, I. M. Oppel;
Rational Construction of an Extrinsic Porous Molecular Crystal with an Extraordinary High Specific Surface Area
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75. N. Bucher, J. Szabo, I. M. Oppel, G. Maas
Derivatives of the Triaminoguanidinium Ion. 1. Synthesis, Crystal and Molecular Structures of 1,2,3-Tris(benzylamino)guanidinium Salts
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76. R. W. Seidel, C. Dietz, I. M. Oppel;
Crystal structure of catena-[dichlorido- μ_2 -4,4'-dithiodipyridine- $\kappa^2N:N'$ -zinc(II)], $C_{10}H_8Cl_2N_2S_2Zn$
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77. R. W. Seidel, R. Goddard, J. Breidung, P. Bamfaste, D. Neff, I. M. Oppel;
Reversible crystal-to-crystal phase transition of a 4,4'-bipyridine linked dinuclear copper(II) complex
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78. B. S. Gutrath, I. M. Oppel, O. Presly, I. Beljakov, V. Meded, W. Wenzel, U. Simon;
[Au₁₄(PPh₃)₈(NO₃)₄], discovery of a new class of Au(NO₃)-ligated superatom complexes
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Post-Modification of the Interior of Porous Shape-Persistent Organic Cage Compounds
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80. R. W. Seidel, R. Goddard, I. M. Oppel;
Structural Diversity of Metallosupramolecular Assemblies Based on the Bent Bridging Ligand 4,4'-Dithiobipyridine
Polymers **2013**, 5, 527
81. R. W. Seidel, C. Dietz, R. Goddard, I. M. Oppel;
Non-Merohedrally Twinned catena-[Dibromido- μ -4,4'-Dithiodipyridine- $\kappa^2N:N'$ -Zinc(II)]
J. Chem. Crystallogr. **2013**, 43, 229
82. M. L. Abraham, A. C. Schulze, A. Korthaus, I. M. Oppel;
Oxidant-Induced Intramolecular Triazol Formation
Dalton Trans. **2013**, 42, 16066

83. R. W. Seidel, C. Dietz, J. Breidung, R. Goddard, I. M. Oppel;
*(Hexafluorosilicato- κ^2F,F')bis(1,10-phenanthroline- κ^2N,N')zinc(II)
methanol monosolvate*
Acta Cryst **2013**, C69, 1112
84. G. Zhang, O. Presly, F. White, I. M. Oppel, M. Mastalerz
*A Permanent Mesoporous Organic Cage with an Exceptionally High
Surface Area*
Angew. Chem. **2014**, 126, 1542; *Angew. Chem. Int. Ed.* **2014**, 53, 1516
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*A Shape-Persistent Quadruply Interlocked Giant Cage Catenane with Two
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86. K. Tahara, M. L. Abraham, K. Igawa, K. Katayama, I. M. Oppel, Y. Tobe
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charged trigonal building blocks at the liquid/Solid interfaces*
Chem. Commun. **2014**, 50, 7683
87. T. Peters, A. Vogg, I. M. Oppel, J. Schmaljohann
*Simple and efficient Synthesis of 2- $[^{18}F]$ Fluoroethyltriflate for high yield
 ^{18}F Fluorethylation*
J. Appl. Rad. Iso. **2014**, 94, 141
88. R. W. Seidel, R. Goddard, I. M. Oppel
*Isomorphous free-base, Ni(II)- and Cu(II)-5,10,15,20-tetra(4-
hydroxyphenyl)porphyrin nitrobenzene hexasolvates with tetragonal 3D
hydrogen-bonded network structures*
CrystEngComm **2014**, DOI: 10.1039/c4ce01881h
89. M. L. Abraham, I. M. Oppel
*Formation of an oxidant sensible Pd(II) coordination compound and its
 1H NMR specific characterization: a preparative and analytical challenge
in current coordination chemistry*
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