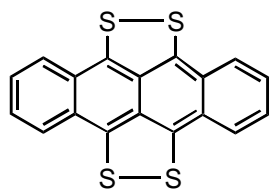


構造式 略称 合成 reference

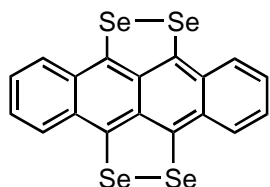
(s: single crystal, p: polycrystalline pellet, I(E_A): semiconductor)

TTT 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Cl	1:1	4.3E-4 (p)	I	2)		
Br	1:1	2.0E-2 (p)	I	2)		
SCN	1:0.7	2.3E-1 (p)	I	2)		
HSO ₄	1:1	1E-2 (p)	I	3)		
I	1:0.9~1.0	1.4 (p)	I	2)		
I	1:1	30~70 (s)	413 K	4),5)	4)	
I	1:1.5	1000 (s)	not clear	4),5),6)	7)	8)
Hg ₂ I ₅	1.25:1	800 (s)		9)		
TCNQ	1:2	1~8E-1 (p)		10),11)		
TCNQ	1:2	100 (s)	~90 K	12)	16)	12)
TCNQ	1:1	1 (s)		13)		
I ₂ TCNQ	1:1	10 (p)		14)		
(MeO) ₂ TCNQ	1:1	5 (p)		14)		
(MeO) ₂ TCNQ	1:1	170 (s)		14)		
(MeO)TCNQ	1:1	5 (p)	I	14)		
Et ₂ TCNQ	1:1	3.3 (p)	I	14)		
Me ₂ TCNQ	1:1	2.5 (p)	I	14)		
Br ₂ TCNQ	1:1	3.3E-1 (p)	I	14)		
BrTCNQ	1:1	8.3E-2 (p)	I	14)		
CITCNQ	1:1	2.2E-2 (p)	I	14)		
Cl ₂ TCNQ	1:1	1.7E-3 (p)	I	14)		
(CN) ₂ TCNQ	1:1	1.1E-2 (p)	I	14)		
F ₄ TCNQ	1:1	5E-3 (p)	I	14)		
TNAP	1:1	3.3 (p)	I	14)		
PtC ₄ S ₄ (CN) ₄	1:1	1.3E-2 (p)	I	14)		
PtC ₄ S ₄ (CN) ₄	2:1	3.3E-1 (p)	I	14)		
PtC ₄ S ₄ (CH ₃) ₄	3:1	2.5E-5 (p)	I	14)		
PdC ₄ S ₄ (CN) ₄	2:1	2.0E-4 (p)	I	14)		
NiC ₄ S ₄ H ₄	1.2:1	30 (s)		15)		

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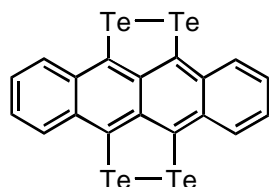


TSeT 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
HSO ₄	1:1	2E-2 (p)	I	2)		
CuCl ₂	1:1	8E-3 (p)	I	3)		
Pt(CN) ₄	5:2	1E-2 (p)	I	4)		
IrCl ₆	7:2	1E-2 (p)	I	4)		
Hg ₂ I ₅	3:1	400 (s)		3)		
SCN	2:1	20 (s)		4),5)	5)	
SeCN	2:1	0.4 (p)	I	4)		
I	1:0.75	120 (s)		4),6)		
I	1:1.8	60 (s)		6)		
I	1:2.4	80 (s)		6)		
I	2:1	1500 (s)		7),8)		
Cl	2:1	2000 (s)		4),9),10)		
Br	2:1	1300 (s)		4),9)		

references

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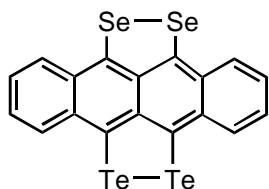


TTeT 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
Br	2:1	1~2		2)	2)	
Cl	2:1	1~2		3)		
I				3)		
TCNQ	1:2	0.1~1 (p)		3)		
CuCl ₂	2:1	0.1~1 (p)		3)		
CuBr ₂	2:1	0.1~1 (p)		3)		

References

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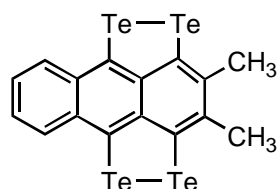


DSeDTeT 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Br	2:1	3E-2 (s)	I(0.013 eV)	2)	2)	

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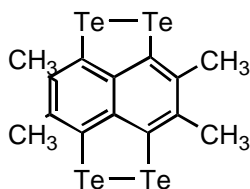


2,3-DMTTeA 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
ClO ₄	3:2	7.1E-3 (s)	I(0.16 eV)	2)	2)	
BF ₄	3:2	9.7E-3 (s)	I(0.17 eV)	2)	2)	
ReO ₄	3:2	5.5E-3 (s)	I(0.16 eV)	2)	2)	
PF ₆	5:1	5.6E-2 (s)	I(0.077 eV)	2)	2)	
AsF ₆	5:1	1.2E-1 (s)	I(0.068 eV)	2)	2)	
Br	2:1	1300 (s)	I(0.010 eV)	2)	2)	

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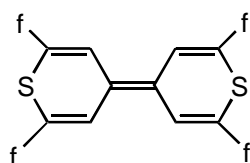


TMTTeN 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Au(CN) ₂	2:1	500~1000 (s)	metal	2)	2)	
Ag(CN) ₂	2:1	500~1000 (s)	metal	2)	2)	2)

references

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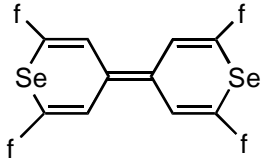
(phenyl)₄BTP 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I ₃ and I ₅	1:0.36:0.40	2(s)	165 K	2),4)	3)	
I ₃	1:0.76	120(s)		2)	3)	

I ₃	1:2.28	250(s)	4)	4)
I	1:3.3-3.45	2(s)	4)	4)

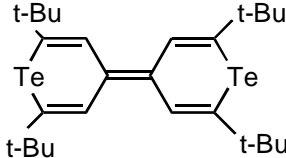
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	(phenyl) ₄ BSeP	1)			
X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T _{M-I}	ref	構造 ref 磁性 ref
DDQ	1:1	3E-3(p)		1)	

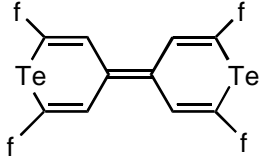
references

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	(tert-butyl) ₄ BTeP	1)			
X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T _{M-I}	ref	構造 ref 磁性 ref
ClO ₄	2:3	4E-4(p)		1)	

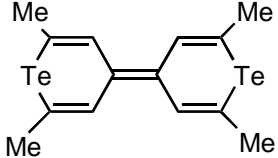
references

- 1) M. R. Detty, B. J. Murray, J. H. Perlstein, *Tetrahedron Lett.*, **24**, 539 (1983).

	(phenyl) ₄ BTeP	1)			
X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T _{M-I}	ref	構造 ref 磁性 ref
ClO ₄	2:3	1E-4(p)		1)	

references

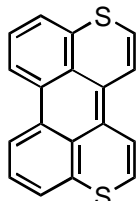
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	(methyl) ₄ BTeP	1)			
					(3-阪5)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
BF_4	2:3	1E-4(p)				1)

references

1) M. R. Detty, B. J. Murray, J. H. Perlstein, *Tetrahedron Lett.*, **24**, 539 (1983).

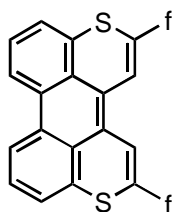


3,10-DTPR 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
I	1:2.2	3E-2(p)				1)

references

1) K. Nakasuji, H. Kubota, T. Kotani, I. Murata, G. Saito, T. Enoki, K. Imaeda, H. Inokuchi, M. Honda, C. Katayama, J. Tanaka, *J. Am. Chem. Soc.*, **108**, 3460 (1986).

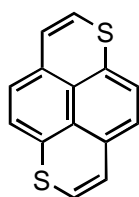


Ph_2DTPR 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
I	1:1.8	1E-2(p)				1)

references

1) K. Nakasuji, H. Kubota, T. Kotani, I. Murata, G. Saito, T. Enoki, K. Imaeda, H. Inokuchi, M. Honda, C. Katayama, J. Tanaka, *J. Am. Chem. Soc.*, **108**, 3460 (1986).



DTPY 1)

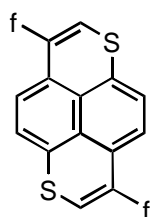
X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	4(p)	4K	1)	2)	
THBTCNQ	1:1	0.4(p)	-	1)		
DHBTCNQ	1:1	0.3(p)	-	1)		
I	1:3	6E-2(p)	-	1)		

references

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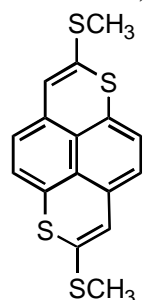
Liq. Cryst., **120**, 349 (1985).



		Ph ₂ DTPY		1)	
X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref 磁性 ref
DDQ	1:0.75	0.5(p)		1)	

references

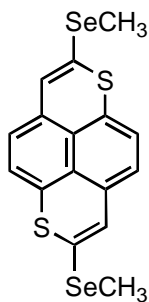
- 1) K. Nakasuji, H. Kubota, T. Kotani, I. Murata, G. Saito, T. Enoki, K. Imaeda, H. Inokuchi, M. Honda, C. Katayama, J. Tanaka, *J. Am. Chem. Soc.*, **108**, 3460 (1986).



		MTDTPY		1)	
X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref 磁性 ref
TCNQ ()	1:1	3.4E-6(s)	I(0.26eV)	1)	1)
TCNQ ()	1:1	110 (s)	110K	1)	1)
CHL	1:1	140(s)	240K	1)	1)
BRL	1:1	230(s)	125K	1)	
FLL	1:1	18(s)	I(0.13eV)	1)	
DDQ	1:1	6.3E-2(p)		1)	
PF ₆	1:0.67	43(s)	I(0.056eV)	2),3)	2)
I	1:2.2	13(s)	I	1)	

references

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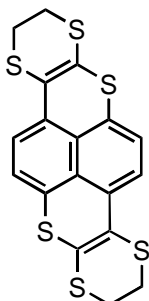


MSDTPY 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
AsF ₆	1:0.67	36(s)	I	1)	1)	
Au(CN) ₂	1:1	0.15		1)	1)	

references

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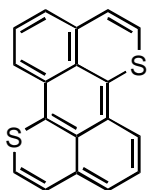


ETDTPY 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:2.3	42(s)	I	2)		

references

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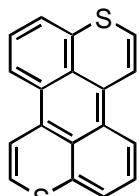


1,7-DTPR 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:0.5	7.7E-1(p)	I(0.02eV)	1)		
DDQ	1:1	1.4E-6(p)	I(0.14eV)	1)		
I	1:3.5	0.4E-6(p)	I(0.09eV)	1)		
NO ₃	?	0.07(s)	I(0.07eV)	1)		

references

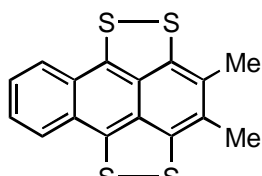
- 1) K. Nakasuji, A. Oda, I. Murata, K. Imaeda, H. Inokuchi, *J. Chem. Soc., Chem. Commun.*, 1553 (1989).



X of Acceptor	D:X(or A)	3,9-DTPR $\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	1) T_{M-I}	ref	構造 ref	磁性 ref
I	?	7(s)		1)		

references

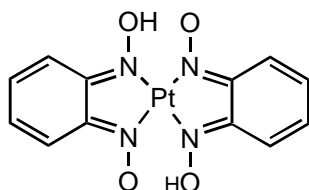
1) K. Nakasuji, A. Oda, J. Toyoda, I. Murata, *J. Chem. Soc., Chem. Commun.*, 366 (1990).



X or Acceptor	D:X(or A)	DMTTA $\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	1) T_{M-I}	ref	構造 ref	磁性 ref
NO ₃	1:1	4.4(s)	I(0.065eV)	1)		
BF ₄	1:1	7.0(s)	I(0.063eV)	1)		
ClO ₄	1:1	5.0E-1(s)	I(0.072eV)	1)	1)	
PF ₆	2:1	1.2E-1(s)	I(0.072eV)	1)	1)	
AsF ₆	2:1	1.9E-1(s)	I(0.079eV)	1)		
Br	1:1	3.2E-3(p)	I(0.106eV)	1)		

references

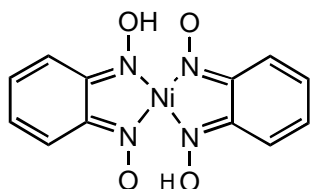
1) K. Takimiya, A. Ohnishi, Y. Aso, T. Otsubo, F. Ogura, K. Kawabata, K. Tanaka, M. Mizutani, *Bull. Chem. Soc. Jpn.*, **67**, 766 (1994).



X or Acceptor	D:X(or A)	Pt(bqd) ₂ $\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	1) T_{M-I}	ref	構造 ref	磁性 ref
		3.3E-3 (s、単成分)	I(0.25 eV)	2)		

references

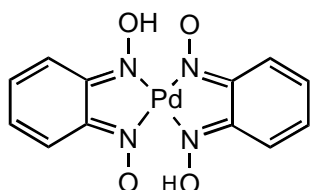
- 1) M. Megnamisi-Belombe, Dissertation, Heidelberg, 1974, and "Diplomarbeit" (M. S. Thesis), Heidelberg, 1972.
- 2) M. Megnamisi-Belombe, *J. Solid State Chem.*, **22**, 151 (1977).

Ni(bqd)₂ 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:0.52:0.32(Me)	1.1E-5 (s)	I (0.54 eV)	1)	1)	

references

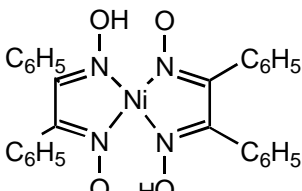
- 1) L. D. Brown, D. W. Kalina, M. S. McClure, S. Schutz, S. L. Ruby, J. A. Ibers, C. R. Kannewurf, T. J. Marks, *J. Am. Chem. Soc.*, **101**, 2937 (1979).

Pd(bqd)₂ 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:0.5:0.52(Cl ₂)	8.1E-3 (s)	I (0.22 eV)	1)	1)	

references

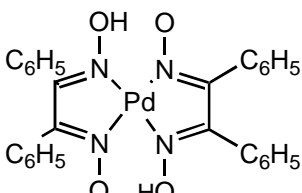
- 1) L. D. Brown, D. W. Kalina, M. S. McClure, S. Schutz, S. L. Ruby, J. A. Ibers, C. R. Kannewurf, T. J. Marks, *J. Am. Chem. Soc.*, **101**, 2937 (1979).

Ni(dpg)₂ 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:1	1.1E-1 (s)	I (0.19 eV)	2)	2)	

references

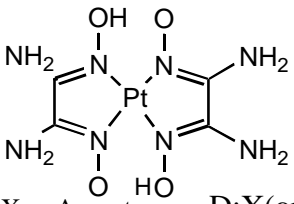
- 1) J. S. Miller, C. H. Griffiths, *J. Am. Chem. Soc.*, **99**, 749 (1977).
 2) M. Cowie, A. Gleizes, G. W. Grynkewich, D. W. Kalina, M. S. McClure, R. P. Scaringe, R. C. Teitelbaum, S. L. Ruby, J. A. Ibers, C. R. Kannewurf, T. J. Marks, *J. Am. Chem. Soc.*, **99**, 2921 (1977).

Pd(dpg)₂ 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:1	4.7E-3 (s)	I (0.54 eV)	2)		

references

- 1) L. F. Mehne, B. B. Wayland, *Inorg. Chem.*, **14**, 881 (1975).
- 2) M. Cowie, A. Gleizes, G. W. Grynkewich, D. W. Kalina, M. S. McClure, R. P. Scaringe, R. C. Teitelbaum, S. L. Ruby, J. A. Ibers, C. R. Kannewurf, T. J. Marks, *J. Am. Chem. Soc.*, **99**, 2921 (1977).

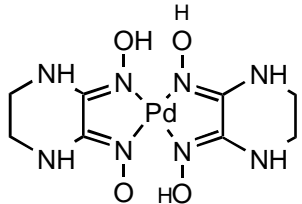


The structure shows a central Pt atom coordinated to two dag ligands. Each dag ligand is a 2,4,6-triaminopyrimidin-5(1H)-one derivative, where the N1 and N3 positions are coordinated to the Pt atom. The N1 position has an OH group, and the N3 position has an O atom. The 2, 4, and 6 positions are substituted with NH2 groups.

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	1E-3 (p)	I	2)	2)	

references

- 1) H. Endres, L. Schlicksupp, *Acta Cryst.*, **B35**, 3035 (1979).
- 2) H. Endres, *Angew. Chem. Suppl.*, 1982, 1309.

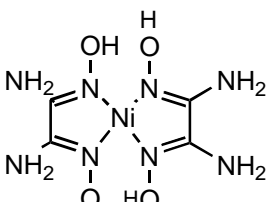


The structure shows a central Pd atom coordinated to one Hedag ligand and one H2edag ligand. Hedag is a 2,4,6-triaminopyrimidin-5(1H)-one derivative with N1 and N3 coordinated to Pd. H2edag is a 2,4,6-triaminopyrimidin-5(1H)-one derivative with N1 and N3 coordinated to Pd. The N1 position has an OH group, and the N3 position has an O atom. The 2, 4, and 6 positions are substituted with NH groups.

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	90 (s)	~200 K	3)	3)	
TCNQ	1:1	~100 (s)	125, 175 K	4),5)		

references

- 1) H. Endres, L. Schlicksupp, *Acta Cryst.*, **B35**, 3035 (1979).
- 2) D. Yoshida, H. Kitagawa, T. Mitani, T. Itoh, K. Nakasuji, *Mol. Cryst. Liq. Cryst.*, **285**, 257 (1996).
- 3) T. Itoh, J Toyoda, M. Tadokoro, H. Kitagawa, T. Mitani, K. Nakasuji, *Chem. Lett.*, 41 (1995).
- 4) H. Kitagawa, T. Mitani, T. Itoh, J. Toyoda, K. Nakasuji, *Syn. Met.*, **71**, 1919 (1995).
- 5) T. Mitani, H. Kitagawa, K. Morii, D. Yoshida, K. Sakai, T. Itoh, K. Nakasuji, *Mol. Cryst. Liq. Cryst.*, **285**, 249 (1996).

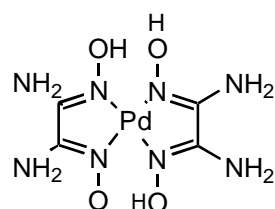


The structure shows a central Ni atom coordinated to one H2dag ligand and one Hdag ligand. H2dag is a 2,4,6-triaminopyrimidin-5(1H)-one derivative with N1 and N3 coordinated to Ni. Hdag is a 2,4,6-triaminopyrimidin-5(1H)-one derivative with N1 and N3 coordinated to Ni. The N1 position has an OH group, and the N3 position has an O atom. The 2, 4, and 6 positions are substituted with NH2 groups.

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	~1E-1 (s)	300 K	1)		

references

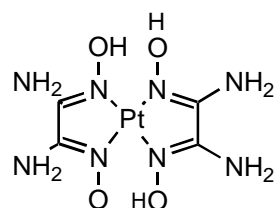
- 1) T. Mitani, H. Kitagawa, H. Okamoto, K. Nakasuji, J. Toyoda, *Mol. Cryst. Liq. Cryst.*, **216**, 73 (1992).

Pd(H₂dag)(Hdag)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	~10 (s)	~250 K	1),2)		

references

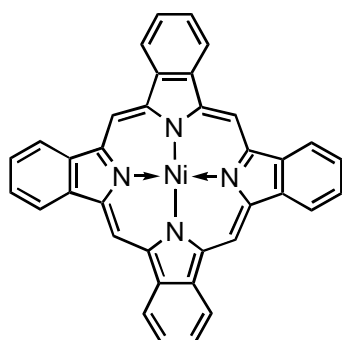
- 1) H. Kitagawa, T. Mitani, J. Toyoda, K. Nakasuji, H. Okamoto, M. Yamashita, *Syn. Met.*, **55-57**, 1783 (1993).
 2) H. Kitagawa, H. Okamoto, T. Mitani, M. Yamashita, *Mol. Cryst. Liq. Cryst.*, **228**, 155 (1993).

Pt(H₂dag)(Hdag)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
TCNQ	1:1	~1E-1 (s)	~250 K	1),2),3)		

references

- 1) T. Mitani, H. Kitagawa, H. Okamoto, K. Nakasuji, J. Toyoda, *Mol. Cryst. Liq. Cryst.*, **216**, 73 (1992).
 2) H. Kitagawa, T. Mitani, J. Toyoda, K. Nakasuji, H. Okamoto, M. Yamashita, *Syn. Met.*, **55-57**, 1783 (1993).
 3) H. Kitagawa, H. Okamoto, T. Mitani, M. Yamashita, *Mol. Cryst. Liq. Cryst.*, **228**, 155 (1993).

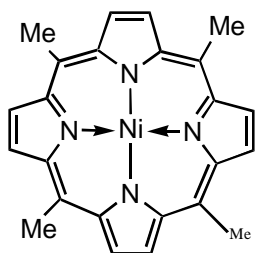


Ni(TBP) 1)

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:1	330 (s)	120 K	1)	1)	1)

references

- 1) J. Martinsen, L. J. Pace, T. E. Phillips, B. M. Hoffman, J. A. Ibers, *J. Am. Chem. Soc.*, **104**, 83 (1982).

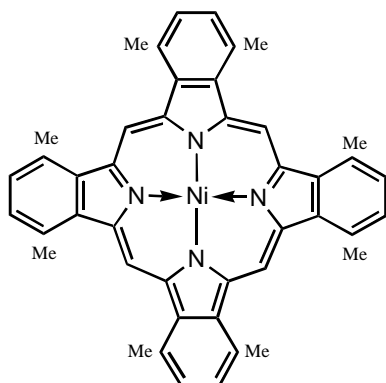


Ni(tmp) 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
I	1:1	270 (s)	115 K	2)	2)	2)
ReO ₄	2:1	115 (s)	I(0.12eV)	3)	3)	3)
PF ₆	2:1	150 (s)	205 K	4)	4)	4)

references

- 1) A. Ulman, J. Gallucci, D. Fisher, and J. A. Ibers, *J. Am. Chem. Soc.*, **102**, 6852 (1980).
 2) L. J. Pace, J. Martinsen, A. Ulman, B. M. Hoffman, J. A. Ibers, *J. Am. Chem. Soc.*, **105**, 2612 (1983).
 3) T. P. Newcomb, M. R. Godfrey, B. M. Hoffman, J. A. Ibers, *Inorg. Chem.*, **29**, 223 (1990).
 4) T. P. Newcomb, M. R. Godfrey, B. M. Hoffman, J. A. Ibers, *J. Am. Chem. Soc.*, **111**, 7078 (1989).

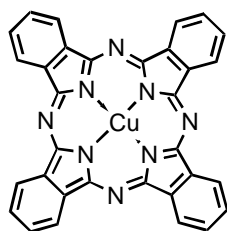


Ni(OMTBP) 1)

X or Acceptor	D:X(or A)	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
I	1:1.08	16 (s)	300 K	1),2)	1),2)	1),2)
I	1:2.9	3 (s)	340 K	1),2)	1),2)	1),2)

references

- 1) T. E. Phillips, R. P. Scaringe, B. M. Hoffman, J. A. Ibers, *J. Am. Chem. Soc.*, **102**, 3435 (1980).
 2) T. E. Phillips, B. M. Hoffman, *J. Am. Chem. Soc.*, **99**, 7734 (1977)

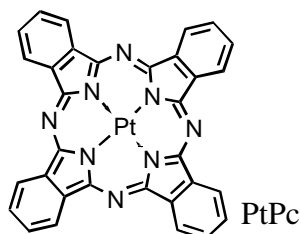


CuPc

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:1.71	4.2 (p)	I(0.021eV)	1)		
Br	1:x	4.0E-3 (s)	I(0.1,0.05eV)	2)		

references

- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
- 2) Y. Yamamoto, K. Yoshino and Y. Inuishi, *J. Phys. Soc. Jpn.*, **47**, 1887 (1979).

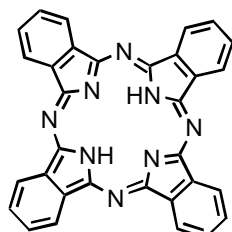


PtPc

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:0.93	2.4 (p)	I(0.016eV)	1)		
AsF ₆	1:x	100~1000 (s)		2)	2)	
ClO ₄	2:1	100~1000 (s)		2)	2)	

references

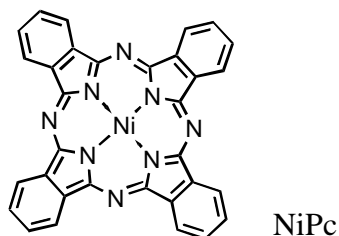
- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
- 2) H. Yamakado, K. Yakushi, N. Kosugi, H. Kuroda, A. Kawamoto, J. Tanaka, T. Sugano, M. Kinoshita, S. Hino, *Bull. Chem. Soc. Jpn.*, **62**, 2267 (1989).

H₂Pc

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:2.20	2.3 (p)	I(0.040eV)	1)		
I	1:1	700 (s)		2)	2)	

references

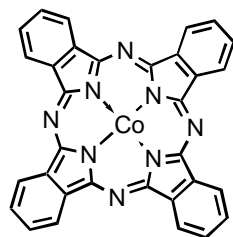
- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
- 2) T. Inabe, T. J. Marks, R. L. Burton, j. W. Lyding, W. J. McCarthy, C. R. Kannewurf, G. M. Reisner and F. H. Herstein, *Solid State Commun.*, **54**, 501 (1985).



X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:0.56	0.7 (p)	I(0.024eV)	1)		
I	1:1	0.7 (p)	I(0.036eV)	1)		
I	1:1	550 (s)	52K	2)	2)	
I	1:1.74	0.8 (p)	0.021eV	1)		
ClO ₄	1:0.42	700 (s)		3)	3)	
Br	1:1	100 (s)		4)	4)	4)
BF ₄	1:0.33	1000 (s)	~80 K	5)	5)	
AsF ₆	2:1	70~700 (s)		6)	7)	7)
SbF ₆	2:1	10~200 (s)		7)	7)	7)

references

- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
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- 3) M. Almeida, M. G. Kanatzidis, L. M. Tonge, T. J. Marks, H. O. Marcy, W. J. McCarthy and C. R. Kannewurf, *Solid State Commun.*, **63**, 457 (1987).
- 4) S. M. Palmer, J. L. Stanton, B. M. Hoffman, and J. A. Ibers, *Inorg. Chem.*, **25**, 2296 (1986).
- 5) T. Inabe, S. Nakamura, W.-B. Liang, T. J. Marks, R. L. Burton, C. R. Kannewurf, *J. Am. Chem. Soc.*, **107**, 7224 (1985).
- 6) K. Yakushi, M. Sakuda, I. Hamada, H. Kuroda, A. Kawamoto, J. Tanaka, T. Sugano, M. Kinoshita, *Synth. Metals*, **19**, 769 (1987).
- 7) K. Yakushi, H. Yamakado, M. Yoshitake, N. Kosugi, H. Kuroda, T. Sugano, M. Kinoshita, A. Kawamoto, J. Tanaka, *Bull. Chem. Soc. Jpn.*, **62**, 687 (1989).

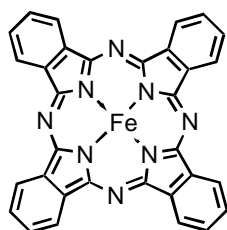


CoPc

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:0.60	0.1 (p)	I(0.065eV)	1)		
I	1:1	0.06 (p)	I(0.082eV)	1)		
I	1:1	50 (s)	I	2)	2)	
AsF ₆	2:1	100 (s)	I	3)	3)	

references

- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
- 2) J. Martinsen, J. L. Stanton, R. L. Greene, J. Tanaka, B. M. Hoffman, and J. A. Ibers, *J. Am. Chem. Soc.*, **107**, 6915 (1985).
- 3) H. Yamakado, T. Ida, A. Ugawa, K. Yakushi, K. Awaga, Y. Maruyama, K. Imaeda, H. Inokuchi, *Synth. Metals*, **62**, 169 (1994).

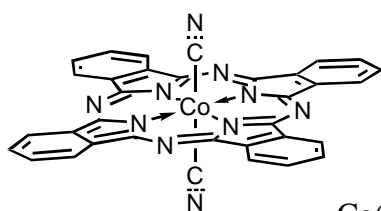


FePc

X or Acceptor	D:X(or A)	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I	1:1.93	4E-3 (p)	I(0.127eV)	1)		
I	1:2.74	2E-3 (p)	I(0.070eV)	1)		
I	1:3.85	1E-4 (p)	I(0.254eV)	1)		
I	1:1	20 (s)		2)		

references

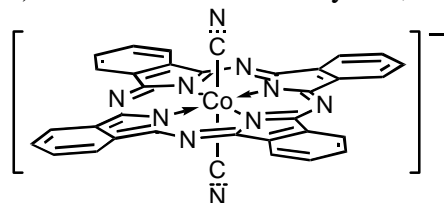
- 1) J. L. Petersen, C. S. Schramm, D. R. Stojakovic, B. M. Hoffman and T. J. Marks, *J. Am. Chem. Soc.*, **99**, 286 (1977).
- 2) S. M. Palmer, J. L. Stanton, N. K. Jaggi, B. M. Hoffman, J. A. Ibers and L. H. Schwartz, *Inorg. Chem.*, **24**, 2040 (1985).

Co(Pc)(CN)₂

(solvent)	Pc:solvent	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
(CHBr ₃)	1:2	1E-2 (s)	I(0.042eV)	1)		
(CHCl ₃)	1:2	1E-1 (s)	I(0.087eV)	2)	2)	
(H ₂ O)	1:2	1 (s)	I(0.06-0.11eV)	2),3)	3)	

references

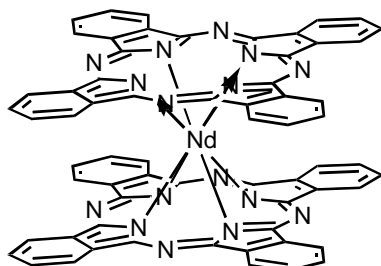
- 1) K. Morimoto and T. Inabe, *Mol. Cryst. Liq. Cryst.*, **284**, 291 (1996).
- 2) K. Morimoto and T. Inabe, *J. Mater. Chem.*, **5**, 1749 (1996).
- 3) T. Inabe and Y. Maruyama, *Bull. Chem. Soc. Jpn.*, **63**, 2273 (1990).

[Co(Pc)(CN)₂]⁻

Cation	C:Pc	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
K	1:2:5(CH ₃ CN)	>10 (s)	I	1)	1)	
Ph ₄ P	1:2	120 (s)		2)	2)	
PXX	1:1	160 (s)	~100 K	3)		

references

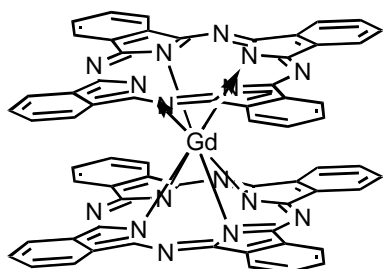
- 1) T. Inabe and Y. Maruyama, *Bull. Chem. Soc. Jpn.*, **63**, 2273 (1990).
- 2) H. Hasegawa, T. Naito, T. Inabe, T. Akutagawa and T. Nakamura, *J. Mater. Chem.*, **8**, 1567-1570 (1998).
- 3) S. Takano, T. Naito, T. Inabe, *Chem. Lett.*, 1249 (1998).

Pc₂Nd 1)

Cation	C:Pc ₂	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
H	1:1	5.3E-4 (p)	I(0.12eV)	2)		

references

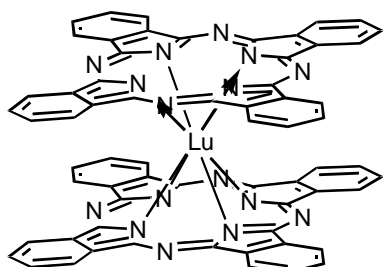
- 1) I. S. Kirin, P. N. Moskalev and Y. A. Makashev, *Russ. J. Inorg. Chem.*, **10**, 1065 (1965).
- 2) M. Yamana, M. Tsutsui and J. S. Ham, *J. Chem. Phys.*, **76**, 2761 (1982).



		Pc ₂ Gd		1)		
Cation	C:Pc ₂	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
H	1:1	5.4E-4 (p)	I(0.10eV)	2)		

references

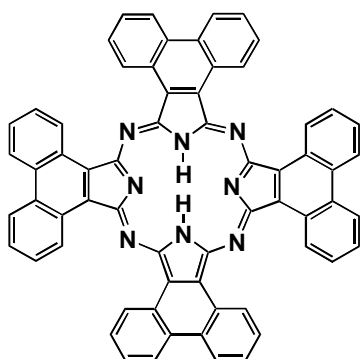
- 1) I. S. Kirin, P. N. Moskalev and Y. A. Makashev, *Russ. J. Inorg. Chem.*, **10**, 1065 (1965).
- 2) M. Yamana, M. Tsutsui and J. S. Ham, *J. Chem. Phys.*, **76**, 2761 (1982).



		Pc ₂ Lu		1)		
(solvent)	Pc ₂ :solvent	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
		5.3E-5 (s)	I(0.13eV)	2)	2)	
(CH ₂ Cl ₂)	1:1	6 E-5 (s)	I(0.32eV)	2)	2)	

references

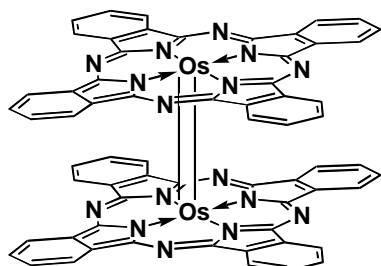
- 1) I. S. Kirin, P. N. Moskalev and Y. A. Makashev, *Russ. J. Inorg. Chem.*, **10**, 1065 (1965).
- 2) P. Turek, M. Moussavi, J.-J. Andre and G. Fillion, *J. Phys. Colloq.*, **49**, 833 (1988).



		TPTAPH ₂		1)		
X	D:X	$\sigma_{RT}(S\text{ cm}^{-1})$ (試料形状)	T_{M-I}	ref	構造 ref	磁性 ref
I	1:0.26	1E-8 (p)		1)		

references

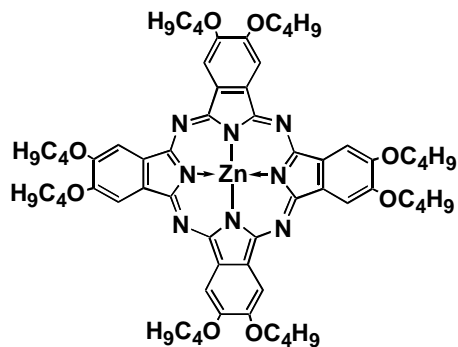
- 1) A. W. Snow and T. R. Price, *Synth. Met.*, **9**, 329 (1984).



Cation	C:Pc ₂	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
		1E-5 (p)		2)		2)

references

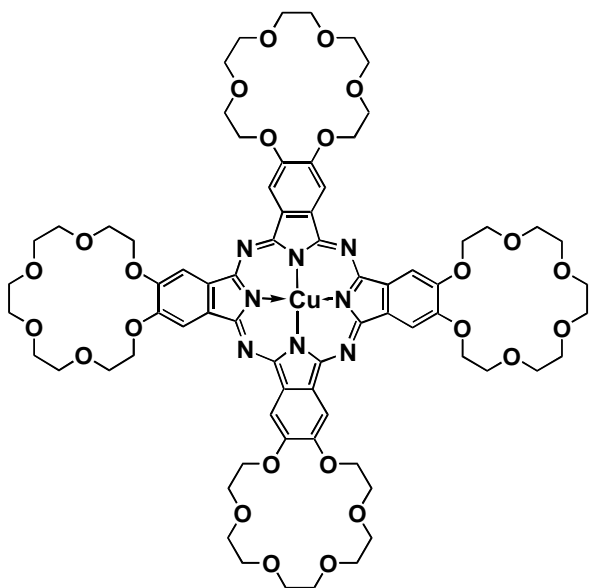
- 1) M. Hanack, A. Gul and L. R. Subramanian, *Inorg. Chem.*, **31**, 1542 (1991).
 2) R. Caminiti, M. P. Donzello, C. Ercolani, and C. Sadun, *Inorg. Chem.*, **37**, 4210 (1998).



X	D:X	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
I ₂	1:1.25	3.6E-6 (p)		1)		

references

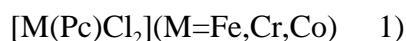
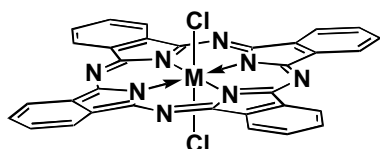
- 1) D. Wohrle and V. Schmidt, *J. Chem. Soc. Dalton Trans.*, 549 (1988).



Cation	C:PC ₂	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
K	1:1	1E-5(453K)	I(1.33eV)	1)		
Rb	1:1	3E-4(453K)	I(1.02eV)	1)		
Cs	1:1	7E-5(453K)	I(1.09eV)	1)		

references

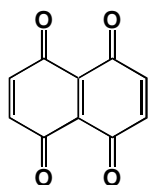
- 1) O. E. Sielcken, J. Schram, R. J. M. Nolte, J. Schoonman and W. Drenth, *J. Chem. Soc. Chem. Commun.*, 108 (1988).



Cation	C:PC ₂	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
		1E-2~1E-3	I(0.13(5)eV)	21)	1)	

references

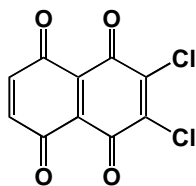
- 1) B. Moubaraki, M. Ley and D. Benlian, *Acta Cryst.* **C46**,379 (1990).



Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Li	?	2.5E-3 (p)	I(0.10 eV)	2)		
K	1:1	5E-6 (p)	I(0.36 eV)	2)		
TTF	1:1	5 (p)	I(0.07 eV)	2)		

references

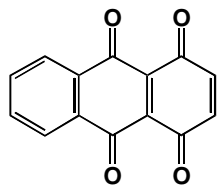
- 1) K. Zhan, P. Ochwat, *Justus Liebigs Ann. Chem.*, **462**, 72 (1928).
 2) H. Asahi, T. Inabe, *Chem. Mater.*, **6**, 1875 (1994).



Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Li	?	2E-5 (p)	I(0.24 eV)	1)		
K	1:1	1E-5 (p)	I(0.49 eV)	1)		
TTF	1:1	5E-6 (p)	I(0.32 eV)	1)		

references

1) H. Asahi, T. Inabe, *Chem. Mater.*, **6**, 1875 (1994).

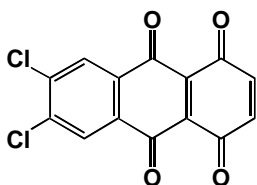


ATO 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Li	?	3E-5 (p)	I(0.23 eV)	1)		
Na	?	5E-5 (p)	I(0.23 eV)	1)		
K	1:1	1E-7 (p)	I(0.61 eV)	1)		
Rb	1:1	5E-8 (p)	I(0.53 eV)	1)		
Cs	1:1	1E-7 (p)	I(0.48 eV)	1)		
TTF	1:1	1E-6 (s)	I(0.40 eV)	1)	1)	
TMTTF	1:1	5E-7 (p)	I(0.43 eV)	1)		

references

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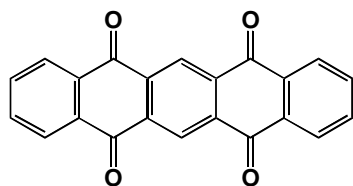


DCIATO 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Li	?	5E-6 (p)	I(0.44 eV)	1)		
K	1:1	1E-6 (p)	I(0.50 eV)	1)		
TTF	1:1	2 (p)	I(0.10 eV)	1)		
TMTTF	4:5	2E-2 (p)	I(0.08 eV)	1)		

references

1) H. Asahi, T. Inabe, *Chem. Mater.*, **6**, 1875 (1994).

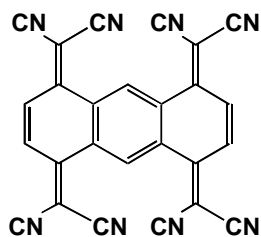


DPT 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Li	1:1	1 (p)		2)	2)	
Li	1:2	1E-4 (p)		2)	2)	

references

- 1) L. I. Smith, F. L. Austin, *J. Am. Chem. Soc.*, **64**, 528 (1942).
- 2) L. L. Miller, T. H. Jozefiak, *Synth. Met.*, **27**, 431 (1988).

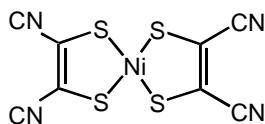


OCNAQ 1)

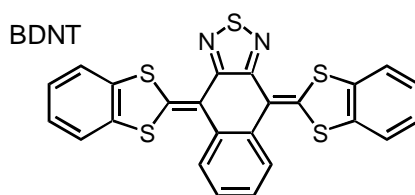
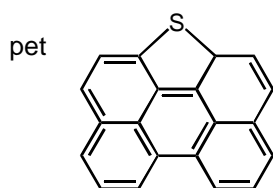
Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
Et ₄ N	1:1	4E-4 (s)	I(0.22 eV)	1)	1)	
Et ₄ N	2:1	1E-7 (s)	I	1)	1)	
TTT	3:2:(Cl ₂ φ)	5E-2 (s)	I	2)		
TTT	2:1:1(DMF)	50 (s)	250 K	2)	2)	
TTF	1:1	1E-2 (s)	I(0.15 eV)	2)		
TTF	2:1	20 (s)	43 K	2)	2)	
TMTTF	1:1	1E-3 (s)	I(0.14 eV)	2)		

references

- 1) T. Mitsuhashi, M. Goto, K. Honda, Y. Maruyama, T. Inabe, T. Sugawara, T. Watanabe, *Bull. Chem. Soc. Jpn.*, **61**, 261 (1988).
- 2) T. Inabe, T. Mitsuhashi, Y. Maruyama, *Bull. Chem. Soc. Jpn.*, **61**, 4215 (1988).

Ni(mnt)₂ 1)

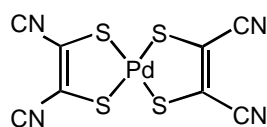
Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
pet	3:2	6.7(s)	I(0.168eV)	2)	2)	2)
BDNT	2:1	0.5(p)	I(0.06eV)	3)		
Na	1:1	1E-5(s)	I(260meV)	5)		
K	1:1	1E-6(s)	I(345meV)	5)		
NH ₄	1:1	4E-2(s)	I(64meV)	5),7)	4),7)	7)
Rb	1:1	E-5(p)	I(190meV)	5)		
Cs	1:1	6E-4(p)	I(193meV)	5)		
Per	2:1	50(s)	I(102meV)	6),8)		



references

- 1) A. Davison, N. Edelstein, R. H. Holm, A. H. Maki, *Inorg. Chem.*, **2**, 1227 (1963).

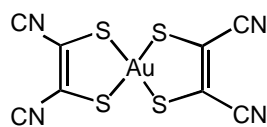
- 2) J. Morgado, I. C. Santos, L. F. Veiros, R. T. Henriques, M. T. Duarte, M. Almeida, L. Alcacer, *J. Mater. Chem.*, **7**, 2387 (1997).
- 3) M. Uruichi, K. Yakushi, Y. Yamashita, J. Qin, *J. Mater. Chem.*, **8**, 141 (1998).
- 4) P. I. Clemenson, A. E. Underhill, M. B. Hursthouse, R. E. Short, G. J. Ashwell, I. M. Sandy, M. I. Jones, C. Jacobsen, K. Carneiro, *Synth. Met.*, **17**, 579 (1987).
- 5) A. E. Underhill, P. I. Clemenson, *Physica*, **143B**, 316 (1986).
- 6) P. I. Clemenson, *Coord. Chem. Rev.*, **106**, 171 (1990).
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- 8) L. Alcacer, A. H. Maki, *J. Phys. Chem.*, **78**, 215 (1974).

Pd(mnt)₂ 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
BDNT	1:1	1.3(p)	I(0.043eV)	2)		
Cs	2:1	5(s)		3)		
Na	1:1	7E-2(p)	I(60meV)	4),5)		
K	1:1	0.5E-1(s)	I(159meV)	4),5)		
NH ₄	1:1	6.7E-3(s)	I(213meV)	4),5)		
Rb	1:1	1.4E-1(s)	I	4),5)		
Cs	0.83:1	2-11(s)	I(50meV)	4),5)	4),5)	
Cs	1:1	5(s)	I	6)	6)	
Per	2:1	7E-2(p)	I(168meV)	5),7)		

references

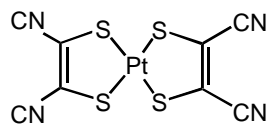
- 1) A. Davison, N. Edelstein, R. H. Holm, A. H. Maki, *Inorg. Chem.*, **2**, 1227 (1963).
- 2) M. Uruichi, K. Yakushi, Y. Yamashita, J. Qin, *J. Mater. Chem.*, **8**, 141 (1998).
- 3) P. I. Clemenson, A. E. Underhill, M. B. Hursthouse, R. E. Short, G. J. Ashwell, I. M. Sandy, M. I. Jones, C. Jacobsen, K. Carneiro, *Synth. Met.*, **17**, 579 (1987).
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- 7) L. Alcacer, A. H. Maki, *J. Phys. Chem.*, **78**, 215 (1974).

Au(mnt)₂ 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
BDNT	1:1	0.4(p)	I(0.05eV)	2)	2)	
BDNT	1:2	1E-2(p)	I(0.1eV)	2)	2)	
BDNT	1:2	1E-7(s)	I(0.19eV)	2)	2)	

references

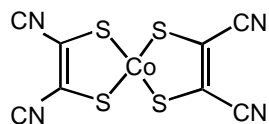
- 1) A. Davison, N. Edelstein, R. H. Holm, A. H. Maki, *Inorg. Chem.*, **2**, 1227 (1963).
- 2) M. Uruichi, K. Yakushi, Y. Yamashita, J. Qin, *J. Mater.Chem.*, **8**, 141 (1998).

Pt(mnt)₂ 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
BDNT	1:1	2.5(p)	I(0.036eV)	2)		
[H ₃ O] _x [NH ₄] _{1-x}	x:1-x:1	1E-5(s)	I(405meV)	3)	3)	3)
Li	0.75:1	30(s)	100K	4)		
Li	0.82:1	100(s)	215K	8)		8)
Na	1:1	3.7E-5(p)	I(88meV)	5),6)		
K	1:1	5.9E-6(p)	I(410meV)	5),6)		
NH ₄	1:1	1E-5(s)	I(309meV)	5),6)		
Rb	1:1	2.5E-5(s)	I(300meV)	6),7)		
Cs	1:1	1.8E-1(p)	I(192meV)	5),6)		
Per	2:1	300-400(s)		6),9)		

references

- 1) A. Davison, N. Edelstein, R. H. Holm, A. H. Maki, *Inorg. Chem.*, **2**, 1227 (1963).
- 2) M. Uruichi, K. Yakushi, Y. Yamashita, J. Qin, *J. Mater.Chem.*, **8**, 141 (1998).
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- 8) M. M. Ahmad, D. J. Turner, A. E. Underhill, *Phys. Rev. B*, **29**, 4796 (1984).
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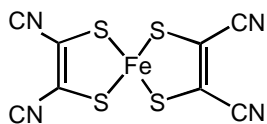
Co(mnt)₂ 1)

Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
(Per)(CH ₂ Cl ₂)	1:1:0.5	60 (s)	I(0.15eV)	2)	2)	2)
Per	2:1	200(s)	73K	3)	3)	3)

references

- 1) A. Davison, N. Edelstein, R. H. Holm, A. H. Maki, *Inorg. Chem.*, **2**, 1227 (1963).

- 2) V. Gama, R. T. Henriques, G. Bonfait, M. Almeida, A. Meetama, S. van Smaalen, J. L. de Boer, *J. Am. Chem. Soc.*, **114**, 1986 (1992).
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Cation or Donor	C(or D):A	σ_{RT} (S cm ⁻¹) (試料形状)	T _{M-I}	ref	構造 ref	磁性 ref
per	2:1	200(s)	58K	1)	1)	1)

references

- 1) V. Gama, R. T. Henriques, G. Bonfait, L. C. Pereira, J. C. Waerenborgh, I. C. Santos, M. T. Duarte, J. M. P. Cabral, M. Almeida, *Inorg. Chem.*, **31**, 2598 (1992).