Table 3. Lattice Parameters of β-Phase ET and BETS Salts

Pattern	Compounds	*a* /Å	*b* /Å	*c* /Å	γ /°	*V* /Å^3	T_{MI}	Ref.
β-phase								
11	$(ET)CuCl_2$	5.781	6.577	12.154	94.74	425.1	Insulator	1
21	$(ET)_2I_3$	6.597	9.070	15.243	109.73	848.9	T_{SC}=1.5 K	2
	$(ET)_2AuI_2$	6.603	9.015	15.403	110.66	845.2	T_{SC}=3.8 K	3
	$(ET)_2I_2Br$	6.612	9.024	15.192	110.12	842.3	Metal	4
	$(ET)_2IBr_2$	6.593	8.975	15.093	110.54	828.7	T_{SC}=2.5 K	5
¥X¥TO(2)1[a]	$(ET)_2AuCl_4$	6.590	8.561	18.319	119.47	845.1	?	6
21[b]	α-$(ET)_2PF_6$	6.462	8.597	14.711	95.71	794.3	Insulator	7
21x2[c]	$(ET)_2BrO_4$	7.795	12.613	17.148	88.74	1589	150 K	8
	$(ET)_2ReO_4$	7.798	12.579	17.102	88.97	1584	81 K(SC)[d]	8
21x2[e]	$(ET)_4Cu(C_2O_4)_2$	8.684	11.776	15.832	93.69	1560	65 K	9
33[e]	$(ET)_3Cl(p$BIB$)$[f]	9.258	10.184	15.578	106.87	1358	Metal	10
	$(ET)_3Br(p$BIB$)$[f]	9.418	10.187	15.420	106.89	1372	Metal	10
42	$(ET)_2InBr_4$	6.681	17.470	16.040	92.43	1820	Insulator	11
42x2[c]	$(ET)_2Fe(C_{12}H_{26}B_{18}S_2)$							
	11.638	17.717	25.748	90.0	5289	Insulator	13	
75	$(ET)_5Hg_3Br_{11}$	12.977	14.454	26.404	92.44	4585	120 K	14
10,?	$(ET)_5[CuHg(SCN)_4]_2$							
	13.020	20.497	36.353	90.0	9651	180 K	15	
11,5?	$(ET)_{11}[P_2W_{18}O_{62}](H_2O)_3$							
	14.597	18.418	42.271	107.82	10819	220 K	16	
12,6[b]	$(ET)_3Li_{0.5}Hg(SCN)_4(H_2O)_2$							
	15.583	19.721	36.395	90.0	11181	170 K	17	

β'-phase								
	$(ET)_2AuCl_2$	6.640	9.763	12.766	99.47	802.0	Insulator	18
	$(ET)_2ICl_2$	6.645	9.771	12.921	98.63	814.3	Insulator	19
	$(ET)_2IClBr$	6.642	9.816	12.975	98.28	821.3	Insulator	20
	$(ET)_2Cr(C_4H_{22}B_{18})$	6.634	7.995	21.944	76.52	1121.7	Insulator	13
	(ET)(TCNQ)	6.650	7.817	23.915	94.33	1197.0	310 K	21
	$(ET)_3(ZnCl_4)_2$	6.80	9.64	20.39	101.4	1307	Insulator	22
	$(ET)_3(MnCl_4)_2$	6.802	9.714	20.595	101.66	1329.8	Insulator	23
BETS salts								
42	λ-$(BETS)_2GaCl_4$	6.595	16.156	18.934	96.76	1776.3	T_{SC} = 8 K	24
	λ-$(BETS)_2FeCl_4$	6.593	16.164	18.538	96.76	1773.0	T_{MI}= 8 K	25

[a] *D* of this β¥X¥TO$(_2)_1$-phase changes sign like 1.60 Å and -3.44 Å so that intra- and inter-dimer displacements take place in the opposite directions, whereas the ordinary β_{21}-phase have the same sign of *D* .

[b] In these salts, intradimer overlap is eclipsed (*D* = 0 Å), and interdimer overlap is slid by *D* = 3.0 - 3.9 Å.

[c] x2: Two-fold periodicity in the transverese direction. d Superconductivity under pressure.

e The stack is inclined along the molecular short axis, so that the intrastack ϕ values are around 78 °.

f *p*BIB: *p*-bis(iodoethynyl)benzene.

Table 4. Lattice Parameters of β"-Phase ET Salts

Pattern	Compounds	*a* /Å	*b* /Å	*c* /Å	γ /°	*N*[a]	T_{MI}	Ref.
20	$(ET)_2Cl(DIA)$[b]	6.728	7.642	17.477	106.90	2	Metal	10
210	$(ET)_2[N(SO_2CF_3)_2]$	6.639	8.658	17.349	68.95	2	?	27
211	$(ET)_2AuBr_2$	5.712	9.027	16.372	102.94	2	Metal	26
	$(ET)_2ICl_2$	5.769	9.003	16.290	103.64	2	Metal	28
	$(ET)_2AuBrI$	5.770	9.071	16.406	103.43	2	Metal	29
	$(ET)_2Cl_2SeCN$	5.924	8.722	16.249	92.688	2	200 K	30
	$(ET)_2Br_2SeCN$	5.930	8.804	16.509	92.192	2	200 K	30
211x2[c]	$(ET)_2SF_5CF_2SO_3$	11.440	9.154	17.491	102.76	4	T_{SC}=	5.2 K 31
211+210x2	$(ET)_2CuCl_4H_2O$	16.634	8.980	16.225	93.24	6	Metal	32
311	$(ET)_3(FSO_3)_2$	7.605	9.421	16.678	96.89	3	?	33
	$(ET)_3(HSO_4)_2$	7.633	9.440	16.607	96.87	3	130 K	33
	$(ET)_3(BF_4)_2$	7.654	9.496	16.398	96.09	3	150 K	34
	$(ET)_3(ClO_4)_2$	7.613	9.498	16.463	95.91	3	170 K	35
	$(ET)_3(BrO_4)_2$	7.670	9.550	16.686	96.13	3	210 K	36
	$(ET)_3Br_2(H_2O)_2$	7.718	9.587	16.167	98.91	3	185 K	37
312	α-$(ET)_3(NO_3)_2$	5.890	12.915	31.125	76.07	3	20 K	38
321	$(ET)_3Cl_{2.5}(H_5O_2)$	7.643	10.235	15.466	98.01	3	170 K	39
	$(ET)_3(HgBr_3)_2$	7.758	10.555	18.371	101.31	3	Insulator	56
321?	γ-$(ET)_3(ReO_4)_2$	8.409	9.295	16.124	97.05	3	Insulator	39
321?	$(ET)_3(IO_4)_2$	8.418	9.303	16.231	97.33	3	Insulator	40
3??	α-$(ET)_3(ReO_4)_2$	8.498	9.413	30.566	89.57	3	88 K	41
412	$(ET)_2(BrO_4)(TCE)_{0.5}$	7.656	12.957	18.590	105.1	4	Metal	34

	$(ET)_2(BF_4)(TCE)_{0.5}$	7.735	13.006	18.450	104.41	4	Metal	157
	$(ET)_2(ClO_4)(TCE)_{0.5}$	7.740	12.966	18.620	104.80	4	Metal	42
	$(ET)_2(FSO_3)(TCE)_{0.5}$	7.786	13.033	18.590	105.27	4	Metal	43
	$(ET)_2Cd_2I_6$	7.869	12.84	19.284	101.03	4	?	44
411	$(ET)_2Ni(CN)_4$	9.699	10.959	16.430	115.07	4	230 K	45,46
	$(ET)_2Pd(CN)_4$	9.735	10.997	16.546	115.15	4	250 K	47
	$(ET)_2Pt(CN)_4$	9.721	10.940	16.552	115.41	4	250 K	45,51
421	$(ET)_2Ni(CN)_4(H_2O)$	9.543	11.493	16.693	112.47	4	180 K	49
	$(ET)_2Pd(CN)_4(H_2O)$	9.562	11.529	16.685	112.29	4	80 K (SC)[e]	47
	$(ET)_2Pt(CN)_4(H_2O)$	9.563	11.514	16.704	112.29	4	80 K (SC)[e]	49
	$(ET)_2$(PrO-TCA)[d]	9.584	11.184	20.73	114.58	4	?	50
321x2[c]	$(ET)_3Cl_2(H_2O)_2$	11.228	13.905	15.929	97.08	6	100 K (SC)[e]	51
3?x2	$(ET)_3NiCl_4H_2O$	9.016	16.269	16.696	90.81	6	Metal	52
31?x3[c]	$(ET)_4H_2O[Fe(ox)_3]$PhCN	10.232	20.04	34.97	93.25	9	T_{SC}= 8.5 K	53
41?x2[c]	$(ET)_4Hg_2Cl_6$(PhCl)	12.586	16.049	18.984	106.02	8	Metal	54
	$(ET)_4Hg_2Br_6$(PhCl)	12.706	16.133	19.131	105.57	8	90 K	54

a *N*: The number of ET molecules within a unit of the conducting sheet.b DIA: diiodoacetylene.

c x2 or x3: Two or three fold periodicity in the transverese direction which originates from the anion lattice. d PrO-TCA$^-$: 1,1,3,3-tetracyano-2-propoxy-2-propen-1-ide.

e SC : Superconducting under pressure.

Table 5. Lattice Parameters of θ-Phase ET and BETS Salts

Compounds	*a* /Å	*b* /Å	*c* /Å	*c*/*a*	θ /°	T_{MI} /K	Z/L[a]	Ref.
$(ET)Ag_{2.4}Br_3$	11.699	40.287	4.232	0.362	132	>300	L	58
$(ET)_2Cu_2(CN)[N(CN)_2]_2$	11.088	38.837	4.201	0.363	130	>300	Z	59
$(ET)Ag_{1.6}(SCN)_2$	11.588	40.18	4.257	0.367	130	>300	L	60
$(ET)Cd_{0.66}(SCN)_2$	11.542	41.469	4.277	0.371	128	>300	L	56
θ-$(ET)_2Ag(CN)_2$(monocli.)	10.996	34.093	4.281	0.389	125	100?[b]	L	61
$(ET)_2TlZn(SCN)_4$	11.003	41.429	4.400	0.400	121	>300	L	57
$(ET)_2TlCo(SCN)_4$	10.393	43.16	4.495	0.432	116	250	Z	57
$(ET)_2RbZn(SCN)_4$	10.175	43.301	4.647	0.457	111	190	Z	56
$(ET)_2RbCo(SCN)_4$	10.176	43.258	4.650	0.457	111	190	Z	56
$(ET)_2CsZn(SCN)_4$	9.816	43.443	4.870	0.496	105	20	Z	55
$(ET)_2CsCo(SCN)_4$	9.804	43.416	4.873	0.490	104	20	Z	55
θ-$(ET)_2I_3$	10.076	33.853	4.964	0.493	99	none	L	62
θ-$(ET)_2Ag(CN)_2$(ortho.)	9.519	33.927	4.952	0.520	101	(15)	Z	61
$(ET)_4[C(CN)_2CONH_2]CuCl_2$	9.320	34.114	5.099	0.547	98	?	Z	63
$(ET)_4[C(CN)_2CONH_2]CuBr_2$	9.338	34.175	5.124	0.549	98	?	Z	63
θ-$(BETS)_2TaF_6$	11.596	37.93	4.240	0.366		25	L	64
$(BETS)_2PF_6$	11.595	36.850	4.259	0.368		28	L	65
$(BETS)_2AuI_2$	10.200	17.292	4.965	0.487		none	L	65
$(BETS)_2Ag(CN)_2$	9.5839	34.645	4.983	0.520		none	Z	66

[a] Z: Z-mode, and L: L-mode in Fig. 6.[b] Suspicious because determined only by ESR measurement.

Table 6. Lattice Parameters of α-(= θ_{20}-)Phase ET and BETS Salts

Compounds	*a* /Å	*b* /Å	*c* /Å	β /°	*c*/2*a*	T_{MI}	Ref.
α-$(ET)_2ICl_2Br$	12.035	16.361	8.879	70.94	0.369	>300 K	69
α-$(ET)_2IBr_2$	12.031	16.402	8.905	70.86	0.370	>300 K	70
α-$(ET)_2Cu(NCS)_2$	10.854	17.471	9.052	90.37	0.417	200 K	71
α-$(ET)_2I_2Br$	10.818	17.370	9.142	90.81	0.423	265 K	72
α-$(ET)_2I_3$	10.804	17.422	9.183	90.85	0.425	135 K	68
$(ET)_2KHg(SCN)_4$	10.082	20.565	9.933	90.91	0.493	Metal	67
$(ET)_2NH_4Hg(SCN)_4$	10.091	20.595	9.963	90.53	0.494	Metal	67
$(ET)_2TlHg(SCN)_4$	10.051	20.549	9.934	90.48	0.494	Metal	73
$(ET)_2RbHg(SCN)_4$	10.050	20.566	9.965	90.57	0.496	Metal	74
$(ET)_2KHg(SeCN)_4$	10.048	20.722	9.976	90.43	0.496	Metal	75
$(ET)_2TlHg(SeCN)_4$	10.105	20.793	10.043	90.53	0.497	Metal	75
$(BETS)_2AuI_2$	10.808	17.713	9.197	90.65	0.426	45 K	65
$(BETS)_2IBr_2$	10.820	17.758	9.209	90.64	0.426	45 K	65
$(BETS)_2I_3$	10.816	17.777	9.209	90.69	0.426	45 K	65
$(BETS)_2AuBr_2$	10.76	17.16	9.25	90.7	0.430	37 K	65
$(BETS)_2NH_4Hg(SCN)_4$	10.125	20.940	9.981	90.37	0.493	Metal	76
$(BETS)_2KHg(SCN)_4$	10.069	20.925	9.968	90.28	0.495	Metal	76
$(BETS)_2TlHg(SeCN)_4$	10.149	21.287	10.081	90.45	0.497	Metal	193
(BETS)4Hg3I8	11.971	41.45	8.462	110.49	0.353	95 K	195
$(BETS)_2HgBr_4(PhCl)_x$[a]	9.742	75.68	9.742	90.0	0.500	Metal	77
$(BETS)_2Cu_2Cl_6$	20.043/2	34.897	9.543	90.0	0.476	Metal	78

[a] This compound has a tetragonal lattice in which the donor arrangement in the conducting sheet is practically α-type

Table 7. Lattice Parameters of Multiple θ-Phase ET Salts

Compounds	*a* /Å	*b* /Å	*c* /Å	*c*/*a*	T_{MI}	Ref.
θ_{31}-$(ET)_3CuBr_4$	10.123	16.937	14.178(/3)	0.467	>300 K	79
$\theta_5+\beta''_5$-$(ET)_5[VW_5O_{19}](H_2O)_6$	11.598	19.77	41.34(/10)	0.356	250 K	80
θ_{42+40}-$(ET)_8[PMo_{12}O_{40}]PhCNH_2O$	11.375[a]	43.260	16.575(/4)	0.364	>300 K	81
θ_{42+40}-$(ET)_8[SiW_{12}O_{40}]$	11.305[a]	43.259	16.652(/4)	0.368	>300 K	82
θ_{42+40}-$(ET)_8[CoW_{12}O_{40}](H_2O)_{5.5}$	11.277[a]	43.117	16.613(/4)	0.368	170 K	83
θ_{42+40}-$(ET)_4Pt(CN)_4$	11.149	33.459	16.504(/4)	0.370	>300 K	84
θ_{42+40}-$(ET)_4Ni(CN)_4$	11.123	33.313	16.506(/4)	0.371	>300 K	84
θ_{42+40}-$(ET)_8[PMnW_{11}O_{39}](H_2O)_2$	11.199[a]	43.384	16.700(/4)	0.373	>300 K	85
θ_{31}-$(BETS)_6Bi_3Cl_{12}$	11.280	19.46	14.98(/3)	0.443	180 K	193

[a] The lattice has been transformed so as to correspond with the ordinary θ-phase.

Table 8. Lattice Parameters of α"(=θ^{22})-Phase ET Salts

Compounds	*a* /Å	*b* /Å	*c* /Å	2*c*/*a*	θ /°	T_{MI}	Ref.
α"-(=θ^{22}-)Phase							
$(ET)_2KCu(SCN)_4$	23.086(/2)	41.112	4.257	0.369	128	Insulator	86
$(ET)_2Cu_5I_6$	22.41(/2)	21.29	4.326	0.386	125	Metal	87
$(ET)_2Au(CN)_2$	22.02(/2)	36.28	4.286	0.389	127	Insulator	88
$(ET)_2Ag(CN)_2$	22.16(/2)	36.44	4.256	0.384	125	Insulator	88
$(ET)_2CsHg(SCN)_4$	22.097(/2)	41.566	4.459	0.404	119	210 K	89
$(ET)_2K_{1.4}Co(SCN)_4$	19.18(/2)	44.639	4.93	0.514	99	130 K	56
θ^{21}-Phase							
$(ET)_3Ag_{6.4}I_8$	16.873(/1.5)	21.115	4.4357	0.3943		60 K	90

Table 9. Lattice Parameters of κ-Phase ET and BETS Salts.

Compounds	a /Å	b /Å	c /Å	c/a[a]	S_{FS}/S_{BZ}[b]	T_{SC}	Ref.
$(ET)_4(Et_4N)Fe(CN)_6(H_2O)_3$	14.59	20.04	8.964	0.6144	0.193	Insulator	93
$(ET)_4(Et_4N)Co(CN)_6(H_2O)_3$	14.54	19.97	8.950	0.6155	0.192	Insulator	93
$(ET)_4(Et_4N)Cr(CN)_6(H_2O)_3$	14.251	21.578	8.967	0.6292	0.190	Insulator	194
κ-$(ET)_2Cu(CN)_3$	13.331	16.113	8.560	0.6421ac	(0.181)	3.8 K	94
κ-$(ET)_2Cu(NCS)_2$	13.124	16.248	8.440	0.6431c	0.178	10.4 K	95
$(ET)_2Cu(CF_3)_4(TCE)$	13.169	38.031	8.539	0.6484	(0.172)	9.2 K	96
$(ET)_2Au(CF_3)_4(TCE)$	13.221	38.057	8.590	0.6497	(0.175)	10.5 K	97
$(ET)_2Ag(CF_3)_4(TCE)$	13.175	38.174	8.595	0.6523	(0.171)	11.1 K	96
κ-$(ET)_2Cu[N(CN)_2]Cl$	12.977	29.979	8.480	0.6535a	(0.173)	12.5 K(0.3 kbar)	91
κ-$(ET)_2Cu[N(CN)_2]Br$	12.942	30.016	8.539	0.6598a	(0.170)	11.2 K	98
κ-$(ET)_2I_3$	12.832	16.387	8.466	0.6598	(0.170)	3.6 K	99
κ-$(ET)_2Cu(CN)[N(CN)_2]$	12.90	16.00	8.631	0.6691c	0.166	10.7 K	94
κ-$(ET)_2Cu[N(CN)_2]I$	12.928	30.356	8.683	0.6716a	(0.165)	Metal	92
κ-$(ET)_2Ag(CN)_2H_2O$	12.601	16.071	8.645	0.6861c	0.158	5.0 K	100
$(ET)_2Hg(SCN)Cl_2$	11.798	36.64	8.300	0.7035a	0.150	(T_{MI} = 35 K)	101
$(ET)_2Hg(SCN)_2I$	11.80	38.03	8.329	0.7058a	0.149	(T_{MI} = 50 K)	102
$(ET)_2Hg(SCN)_2Cl$	11.732	36.69	8.302	0.7076a	0.148	(T_{MI} = 50 K)	101
$(ET)_2(CF_3SO_3)$	11.623	34.171	8.239	0.7088	(0.148)	Insulator	103
$(ET)_2Hg(SCN)_2Br$	11.713	37.039	8.321	0.7104a	0.147	(T_{MI} = 100 K)	104
$(ET)_4PtCl_6PhCN$	11.975	17.35	8.665	0.7236	0.141	(T_{MI} = 250 K)	105
$(ET)_4Hg_{2.89}Br_8$	11.219	37.105	8.706	0.7760	(0.119)	4.3 K	106
$(ET)_4Hg_{3-x}Cl_8$	11.062	35.92	8.754	0.7914	(0.113)	1.8(12 kbar)	107
$(BETS)_2Cu[N(CN)_2]Br$	12.961	31.005	8.576	0.6617a	(0.169)	Metal	108
$(BETS)_2AsF_6(TCE)_x$	12.052	38.219	8.406	0.6975	(0.153)	Metal	65

$(BETS)_2PF_6(TCE)_x$	12.005	38.022	8.387	0.6986	(0.152)	Metal	65
$(BETS)_2CF_3SO_3$	11.732	34.972	8.332	0.7102	(0.147)	(T_{MI} = 30 K)	109
$(BETS)_2TlI_4$	11.902	41.067	8.532	0.7169	(0.144)	Insulator	76
κ-$(BETS)_2TaF_6$	11.636	35.163	8.362	0.7186	(0.143)	Metal	64
κ-$(BETS)_2GaBr_4$	11.773	36.635	8.492	0.7213	(0.142)	Metal	110
κ-$(BETS)_2FeBr_4$	11.754	36.530	8.482	0.7216	(0.142)	Metal	110
$(BETS)_2Cu_2Cl_4$	11.703	35.031	8.477	0.7243	(0.141)	Metal	112
κ-$(BETS)_2GaCl_4$	11.665	35.894	8.464	0.7258	(0.140)	Metal	110
κ-$(BETS)_2FeCl_4$	11.693	35.945	8.491	0.7261	(0.140)	Metal	111
$(BETS)_2SbF_6$	11.511	35.310	8.434	0.7327	(0.137)	Metal	65
$(BETS)_2InCl_4$	11.586	36.492	8.536	0.7367	(0.135)	Metal	110
$(BETS)_2TlCl_4$	11.600	36.577	8.553	0.7373	(0.135)	Metal	76
$(BETS)_xHgBr_y$	11.516	39.064	8.654	0.7515	(0.129)	Metal	77
$(BETS)_2BF_4(TCE)_x$	22.568/2	19.122	8.559	0.7585	(0.126)	Metal	113
$(BETS)_2ClO_4(TCE)_x$	22.551/2	19.253	8.568	0.7599	(0.126)	Metal	113

[a] Those with "a" after the number have polymeric anion chains running along the *a* axis, "c" means chains along the *c* axis, and no sign stands for discrete anions.

[b] Cross section of the closed Fermi surface estimated from Eq. 8 in Appendix. Those designated in parentheses have, on account of the existence of glide planes, no energy gap on the zone boundary.

Table 10 Lattice parameters of δ-phase (β-PF_6 type) ET salts.[a]

Compounds	*a* /Å	*b* /Å	*c* /Å	*c* /*a*	T_{MI}	Ref.
δ-Phases with crystallographically independent one molecule in a sheet						
$(ET)_2Au(CN)_2Cl_2$	15.284	17.727	6.690	0.4377	250 K	115
$(ET)_2CF_3SO_3$	15.018	33.050	6.649	0.4427	306 K	116
β-$(ET)_2PF_6$	14.960	32.643	6.664	0.4455	297 K	114
β-$(ET)_2AsF_6$	15.025	33.072	6.695	0.4456	264 K	117,118
$(ET)_2C(CN)_3$	14.979	16.395	6.700	0.4473	180 K	119,120
β-$(ET)_2SbF_6$	14.93	33.56	6.70	0.4488	273 K	117
δ-$(ET)_2Ni(CN)_4(H_2O)_4$	15.084	17.466	6.771	0.4489	180 K	121
$(ET)_2Br(H_2O)_3$	14.993	32.779	6.734	0.4491	150 K	122
δ-$(ET)_2Pt(CN)_4(H_2O)_4$	15.030	17.403	6.767	0.4502	150 K	121
$(ET)_2Cl(H_2O)_3$	14.854	32.575	6.709	0.4517	120 K	123
$(ET)_2Cl(H_2O)_2$	14.38	17.20	6.684	0.4648	20 K	124
δ-$(ET)_2AuBr_2$	14.837	32.624	6.798	0.4582	320 K	125
δ-$(ET)_2AuI_2$	14.914	33.586	6.849	0.4592	Insulator	125,127
δ'-Phases with crystallographically independent two molecules in a sheet						
$(ET)_2GaCl_4$	16.580	31.911	6.645	0.4008	I	128
$(ET)_4Hg_2Br_6(TCE)$[a]	31.098(/2)	19.344	13.401(/2)	0.4309	?	129
$(ET)_2FeCl_4$	15.025	17.805	6.626	0.4410	I(10^{-2} Scm^{-1})	130
$(ET)_2BrC_2H_4(OH)_2$	14.950	33.692	6.621	0.4429	196 K	131
$(ET)_2InI_4$	14.961	19.440	6.715	0.4488	I	12

$(ET)_2GaI_4$	14.950	19.216	6.719	0.4494	I	12
$(ET)_2FeCl_4$	16.620	31.940	6.651	0.4002	230 K	133
α'-Phases[b]						
$(ET)_2PF_6(C_4H_8O_2)$	8.293	33.020	6.703	0.4041	?	134
$(ET)_2ClO_4$(Dioxane)	8.242	32.998	6.677	0.4051	I(10^{-2} Scm^{-1})	135
$(ET)_2CuCl_2$	7.940	30.554	6.671	0.4201	I(10^{-2} Scm^{-1})	136
$(ET)_2C_4(CN)_6$	7.958	34.212	6.725	0.4225	I(0.017 Scm^{-1})	120
α'-$(ET)_2Ag(CN)_2$	7.956	30.738	6.732	0.4231	Insulator	137
α'-$(ET)_2Au(CN)_2$	7.932	31.018	6.735	0.4245	Insulator	137
$(ET)_2(CH_3C_6H_4SO_3)$	7.785	34.402	6.697	0.4301	Insulator	116
α'-$(ET)_2AuBr_2$	7.799	31.756	6.723	0.4310	Insulator	137
$(ET)_2N(CN)_2$	14.744/2	32.151	6.676	0.4528	?	138
$(ET)_2C_5(CN)_5(TCE)_x$	14.774/2	41.471	6.774	0.4585	I(0.4 Scm^{-1})	139
Other modifications[b]						
$(ET)_2$(MeO-TCA)[c]	7.856	39.765	13.419/2	0.4270	I(10^{-3} Scm^{-1})	140
γ'-$(ET)_2AuI_2$	7.914	34.16	12.833/2	0.4053	Insulator	141
$(ET)_3(HgCl_3)_2$	11.24/(3/4)36.36	6.645	0.4434	I(10^{-2} Scm^{-1})	142	

[a] Lattice constants are transformed so as to coincide with other crystals.

[b] The values of *c*/*a* are modified so as to correspond to the ordinary δ-phase, namely the a axes are converted to the values for four molecules.

c MeO-TCA^-: 1,1,3,3-tetracyano-2-methoxy-2-propen-1-ide.