Superconducting Transition Temperature and Critical Pressure in Organic Conductor

- A family of TMTSF Superconductors

Material	Pc [kbar]	Tc [K]	Ref.
$(TMTSF)_2PF_6$	12	0.9	[1]
$(TMTSF)_2Sb_6$	10.5	0.38	[2]
$(TMTSF)_2TaF_6$	11	1.35	[2]
$(TMTSF)_2ClO_4$	0	1.4	[2]
$(TMTSF)_2AsF_6$	9.5	1.1	[2]
$(TMTSF)_2ReO_4$	9.5	1.2	[2]
$(TMTSF)_2FSO_3$	5	3	[3, 4]

- A family of TMTTF Superconductors

Material	Pc [kbar]	Tc [K]	Ref.
$(TMTTF)_2Br$	12	0.9	[5]

- A family of BEDT-TTF(=ET) Superconductor

Material	Pc [kbar]	Tc [K]	Ref.
$(ET)_2ReO_4$	4.0	2.0	[6]
β_L-$(ET)_2I_3$	0	1.5	[7]
β-$(ET)_2IBr_2$	0	2.7	[8]
β_H-$(ET)_2I_3$	0	8.1	[9, 10]
β-$(ET)_2AuI_2$	0	4.9	[11]
γ-$(ET)_3I_{2.5}$	0	2.5	[12]
κ-$(ET)_4Hg_{2.89}Cl_8$	12	1.8	[13]
θ-$(ET)_2I_3$	0	3.6	[14]
κ-$(ET)_2I_3$	0	3.6	[15]
κ-$(ET)_4Hg_{2.78}Br_8$	0	4.3	[16]
$(ET)_3Cl_2\cdot(H_2O)_2$	16	2	[17]
κ-$(ET)_2Cu(NCS)_2$	0	10.4	[18]
κ-$(ET)_2Cu(NCS)_2$ deuterated	0	11.2	[19]
α-$(ET)_2NH_4Hg(SCN)_4$	0	0.8	[20]
κ-$(ET)_2Cu[N(CN)_2]Br$	0	11.8	[21]
κ-$(ET)_2Ag(CN)_2H_2O$	0	5.0	[22]
κ-$(ET)_2Cu[N(CN)_2]Cl$	0.3	12.8	[23]
κ-$(ET)_2Cu[N(CN)_2]Cl$ deuterated	0.3	13.1	[24]

Material	Pc [kbar]	Tc	Ref
κ-$(ET)_2Cu[N(CN)_2]Br$ deuterated	0	11.2	[25]
κ-$(ET)_2Cu_2(CN)_3$	1.5	2.8	[26]
κ'-$(ET)_2Cu_2(CN)_3$	0	4.1	[27]
$(ET)_4Pt(CN)_4H_2O$	6.5	2	[28]
κ-$(ET)_2Cu(CN)[N(CN)_2]$	0	11.2	[27]
κ-$(ET)_2Cu(CN)[N(CN)_2]$ deuterated	0	12.3	[29]
$(ET)_4Pd(CN)_4H_2O$	7	1.2	[30]
κ-$(ET)_2Cu[N(CN)_2]Cl_{0.5}Br_{0.5}$	0	11.3	[31]
α-$(ET)_2KHg(SCN)_4$	0	0.3	[32]
	1.2	1.2	[33]
α-$(ET)_2RbHg(SCN)_4$	0	0.5	[32]
α-$(ET)_2TlHg(SCN)_4$	0	0.1	[32]
κ-$(ET)_2Cu[N(CN)_2]Cl_{0.25}Br_{0.75}$	0	11.5	[34]
κ-$(ET)_2Cu[N(CN)_2]Cl_{0.15}Br_{0.85}$	0	10	[35]
κ_L-$(ET)_2Cu(CF_3)_4$·TCE	0	4.0	[36]
κ_H-$(ET)_2Cu(CF_3)_4$·TCE	0	9.2	[36]
κ_H-$(ET)_2Ag(CF_3)_4$·TCE	0	11.1	[37]
κ-$(ET)_2Cu[N(CN)_2]Br_{0.9}I_{0.1}$	3	5.9	[38]
κ_H-$(ET)_2Ag(CF_3)_4$·TBE	0	7.2	[39]
κ_L-$(ET)_2Cu(CF_3)_4$·TBE	0	5.2	[40]
κ_L-$(ET)_2Ag(CF_3)_4$·121DBCE	0	4.5	[41]
κ_L-$(ET)_2Ag(CF_3)_4$·121DCBE	0	3.8	[42]
κ_L-$(ET)_2Ag(CF_3)_4$·112DCBE	0	10.2	[43]
κ_L-$(ET)_2Cu(CF_3)_4$·112DCBE	0	4.9	[44]
κ_L-$(ET)_2Ag(CF_3)_4$·112DCBE	0	4.1	[45]
β"-$(ET)_4Fe(C_2O_4)_3H_2O$·PhCN	0	6.5	[46]
κ_H-$(ET)_2Au(CF_3)_4$·TCE	0	10.5	[47]
κ_H-$(ET)_2Ag(CF_3)_4$·121DBCE	0	7.3	[48]
κ_L-$(ET)_2Au(CF_3)_4$·TBE	0	5.8	[49]
κ_L-$(ET)_2Cu(CF_3)_4$·121DBCE	0	5.5	[41]
κ_L-$(ET)_2Au(CF_3)_4$·112DCBE	0	5.0	[50]
κ_L-$(ET)_2Au(CF_3)_4$·121DBCE	0	5.0	[41]
κ_L-$(ET)_2Ag(CF_3)_4$·TBE	0	4.8	[51]
κ_L-$(ET)_2Ag(CF_3)_4$·121DBCE	0	4.5	[41]
κ_L-$(ET)_2Cu(CF_3)_4$·121DCBE	0	3.5	[52]
κ_L-$(ET)_2Au(CF_3)_4$·121DCBE	0	3.2	[53]
κ_L-$(ET)_2Ag(CF_3)_4$·TCE	0	2.4	[47]
κ_L-$(ET)_2Au(CF_3)_4$·TCE	0	2.1	[47]
β"-$(ET)_2SF_5CH_2CF_2SO_3$	0	5.3	[47]

- A family of BEDT-TSF(=BETS) Superconductors

Material	Pc [kbar]	Tc [K]	Ref.
λ-$(BETS)_2GaCl_4$	0	8.0	[54]
λ-$(BETS)_2(Fe_xGa_{1-x})Cl_4$	0	4.5<Tc<6.0	[55]
λ-$(BETS)_2GaBr_xCl_{4-x}$	0	5.0<Tc<7.0	[56]
κ-$(BETS)_2FeBr_4$	0	1.0	[57]
$(BETS)_2(Cl_2TCNQ)$	3.5	1.3	[58]

- Other Superconductors

Material	Pc [kbar]	Tc [K]	Ref.
$(TMET\text{-}STF)_2BF_4$	0	4.1	[59]
$(BEDO\text{-}TTF)_2ReO_4 \cdot H_2O$	0	1.4	[60]

Superconducting Properties

- $H_{c2}(0)$ and $\xi(0)$ for β_L-$(ET)_2I_3$ and β_L-$(d_8$-$ET)_2I_3$ [61]

Material	Direction of H	$H_{c2}(0)$ [kOe]	$\xi(0)$ [Å]
β_L-$(ET)_2I_3$	∥ stack	20.9	587
	⊥ stack	24.8	696
	∥ c*	0.81	22.6
β_L-$(d_8$-$ET)_2I_3$	∥ stack	25.8	506
	⊥ stack	25.5	500
	∥ c*	1.3	25.5

- Superconducting Properties of β-$(ET)_2X$

Material	$H_{c1}(T)$[Oe]			$H_{c2}(0)$[Oe][a]			$\xi(0)$[Å]			
	a	b	c	a	b	c	a	b	c	Ref.
β_L-$(ET)_2I_3$	0.05	0.09	1.15							[62]
				17.8	17.0	0.8	633	608	29	[63]
β_H-$(ET)_2I_3$										
at 1.6 kbar				250[b]		27	127			[64]
3.5 kbar				41		2.6	355[c]		22.7	[64]
5.0 kbar				21.8		1.4	488[c]		31	[64]
β_H-$(ET)_2IBr_2$				33.6	36.0	15	463	444	18.5	[65]
	3.9	16								[66]
β_H-$(ET)_2AuI_2$	4.0	20.5		66.3		5.1	249[c]		19.2	[66]

The superscripts mean:

[a] Extrapolated to 0 K

[b] No direction specified in the ab-plane

- Superconducting Properties: H_{c2}^{*} denotes the orbital critical field

Quantity(method)	κ-$(ET)_2Cu(NCS)_2$	κ-$(ET)_2Cu[N(CN)_2]Br$	Ref.
T_c	9.4 ± 0.3 K	11.4 ± 0.2 K	
$H_{c2}^{\perp}'|_{Tc}(M_{dc})$	9.7 ± 2 kOe/K	38 ± 18 kOe/K	[67]
$H_{c2}^{\parallel}'|_{Tc}(M_{dc})$	130 ±15 kOe/K	210 ± 30 kOe/K	[67]
$H_{c2}^{\perp}(0)$ (extrapolation)	60 ± 10 kOe	80 ± 20 kOe/K	
$H_{c2}^{\perp}(0)$ (NMR)		100 kOe	[68]
$H_{c2}^{*\perp}(0)=0.73H_{c2}^{\perp}'Tc$	67 ± 16 kOe	316 ± 160	
$H_{c2}^{\parallel}(0)$(ρ extrapolated)	210 ± 10 kOe		[69]
$H_{c2}^{*\parallel}(0)$	850 ± 100 kOe	1660 ± 240 kOe	
$\lambda_{\parallel}(0)$	5100 – 8000	6500-8400	[70, 71, 72]
$\xi_{\parallel}(0)$	30-60	20-30	[67, 73, 74]
$\xi_{\perp}(0)$	3-6	5-7	[67, 73, 74]
$\kappa_{\parallel}$	145 ± 60	300 ± 120	
$H_c(0)=\phi_0/2^{3/2}\lambda(0)\xi(0)$	790 ± 300 Oe	1250 ± 300 Oe	
$H_c(0)=(2\pi\gamma_0 V^{-1}_{mol})^{1/2}T_c$	530 ± 50 Oe	630 ± 50 Oe	
$\Delta C/(\gamma T_c)$	2 ± 0.3	2 ± 0.5	[75, 76]
$2\Delta_0/(k_B T_c)$	5-7		[77, 78]

Definition

Ginzburg-Landau coherence lengths perpendicular and parallel to the conducting plane, $\xi_{\perp}$ and $\xi_{\parallel}$, respectively, the following relations are used[79]:

$$H_{c2}^{\perp'} = -\frac{dH_{c2}^{\perp}}{dT}|_{Tc} = \frac{\phi_0}{2\pi\xi_{\parallel}^2 T_c}$$

and

$$\frac{\xi_{\perp}}{\xi_{\parallel}} = \frac{H_{c2}^{\perp'}}{H_{c2}^{\parallel'}} \quad ,$$

where $H_{c2}^{\perp'}$, $H_{c2}^{\parallel'}$ are the initial slope of the upper critical fields for H perpendicular and parallel to the conducting plane, respectively.

- Listing of GL coherence length $\xi(0)$ values for κ-$(ET)_2Cu(NCS)_2$ and κ-$(ET)_2Cu[N(CN)_2]Br$

Material	Tc0	$\xi(0)_{\perp}$ [nm]	$\xi(0)_{\parallel}$ [nm]	Ref.
κ-$(ET)_2Cu(NCS)_2$	8.7±0.2	0.31±0.05	2.9±0.5	[74]
	9.4	0.3	6.5	[75]
	10.4	0.96	18.2	[80]
	10.5	0.77	14.3[a]	[81]
κ-$(d_8$-$ET)_2Cu(NCS)_2$	9.0±0.2	0.32±0.05	2.9±0.5	[74]
κ-$(^{13}C$-$ET)_2Cu(NCS)_2$	8.6±0.2	0.31±0.05	2.9±0.5	[74]
κ-$(ET)_2Cu[N(CN)_2]Br$	10.9±0.2	0.58±0.1	2.3±0.4	[74]
	10.8±0.05	0.4	3.7	[82]
κ-$(d_8$-$ET)_2Cu[N(CN)_2]Br$	10.6±0.2	0.57±0.1	2.3±0.4	[74]
κ-$(^{13}C$-$ET)_2Cu[N(CN)_2]Br$[b]	10.9±0.2	0.58±0.1	2.3±0.4	[74]
κ-$(^{13}C$-$ET)_2Cu[N(CN)_2]Br$[c]	12.2		6.0	[68]

[a] This value is given by $\sqrt{\xi_b(0)\xi_c(0)}$, where $\xi_b(0)$ = 17.4 nm and $\xi_c(0)$ = 11.8 nm

[b] Enriched ^{13}C at CH_2 sites

[c] Enriched ^{13}C at central C sites

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