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Crystal Structure Determination of 3'-methoxy- 2-N-methyl stilbazolium triflate, 2

A suitable crystal for X-ray diffraction was obtained by vapor diffusion of ether into a nearly saturated solution of **2** in acetone. A nearly colorless crystal was mounted with epoxy cement on a glass fiber and was centered on the diffractometer. Unit cell dimensions were obtained from the setting angles of 25 reflections with $27^\circ < 2\theta < 39^\circ$. Two equivalent data sets were collected; the data were corrected for a slight (<1%) decay, Lorentz and polarization factors were applied and the data were merged to give the final set. No absorption correction was made because μr_{\max} was so small. The structure was solved with some difficulty by MULTAN. The computer solution revealed most of the cation, but the triflate anion was not recognizable in the E-map. Even in a subsequent Fourier map phased on the atoms of the cation, the sulfur peak was only $3.5 \text{ e}\AA^{-3}$, no larger than the oxygen atom. Packing considerations led us to introduce the sulfur atom at this site; the remaining atoms appeared in the subsequent Fourier map and refinement proceeded smoothly from then on. Hydrogen atoms were introduced at calculated positions (or, for the two methyl groups, at positions based on maps calculated in their expected planes) and both their positional and thermal parameters were included in the final single full matrix refinement. The final R-index for reflections with $F_o^2 > 3\sigma(F_o^2)$ is 0.0397; the final difference map had peaks of $+0.33 \text{ e}\AA^{-3}$ (near the triflate oxygen atoms) and $-0.20 \text{ e}\AA^{-3}$ (near nothing).

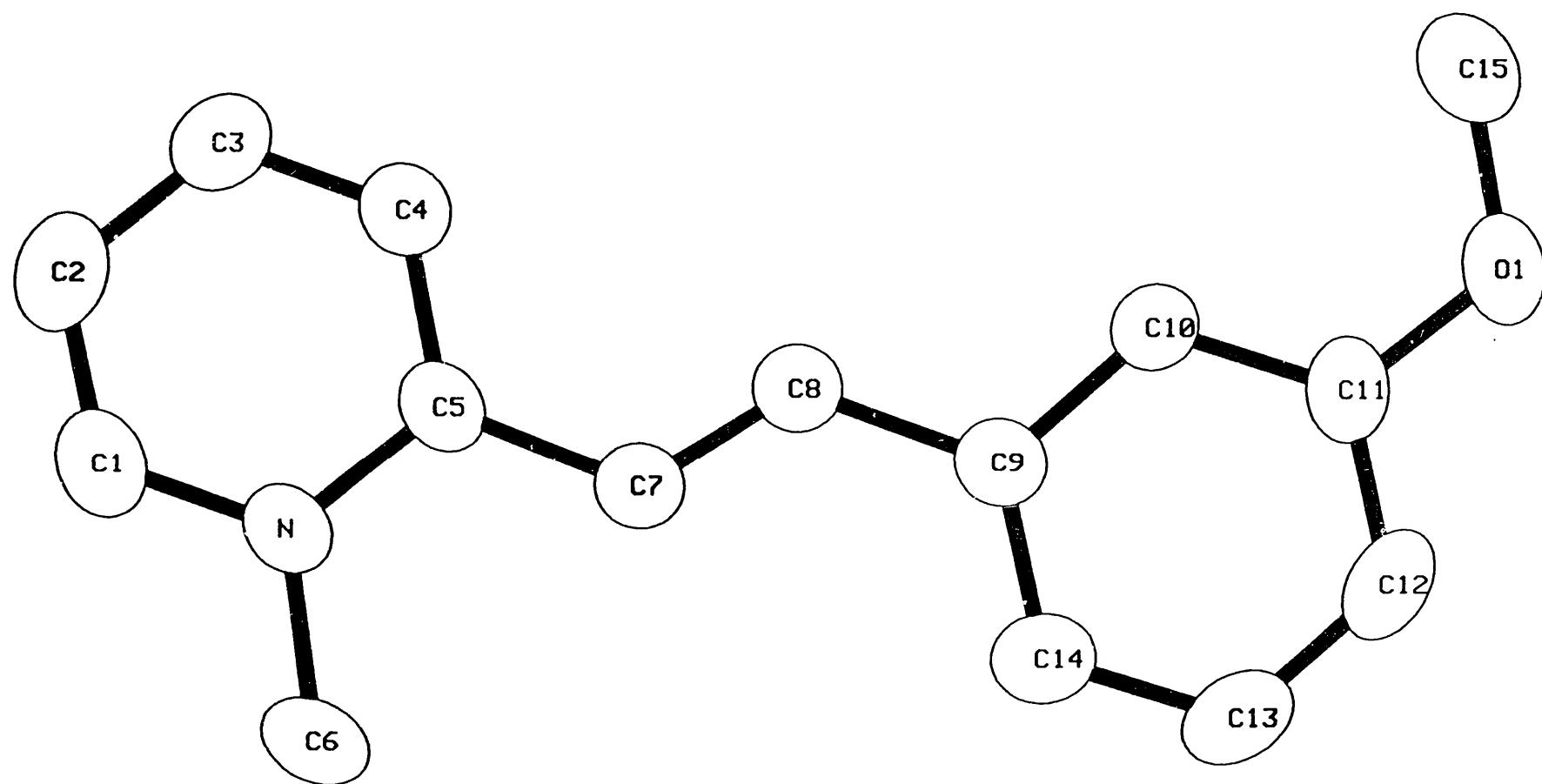
Calculations were done with programs of the CRYM Crystallographic Computing System and ORTEP. Scattering factors and correction for anomalous scattering were taken from a standard reference¹. $R = \sum |F_o - |F_c|| / \sum F_o$, for $F_o^2 > 0$, and goodness of fit = $([\sum w (F_o^2 - F_c^2)^2 / (n - p)]^{1/2}$, where n is the number of data and p is the number of parameters refined. The function minimized in least squares was $\sum w (F_o^2 - F_c^2)^2$ where $w = 1/\sigma^2(F_o^2)$. Variances of the individual reflections were assigned based on counting statistics plus an additional term, $0.0141I^2$. Variances of the merged reflections were determined by standard propagation of error plus another additional term, $0.0014<I>^2$. The secondary extinction parameter² refined to $0.19(11) \times 10^{-6}$.

Crystallographic data for 3'-methoxy-2-N-methyl stilbazolium triflate, **2**

Formula	$C_{15}H_{16}NO \cdot CF_3SO_3$
Formula wt.	397.37
Space group	Cc(No. 9)
a	18.126(4) Å
b	7.040(1) Å
c	13.315(2) Å
β	93.46(1)°
volume	1696.0(5)(11) Å ³
Z; ρ_{calc}	4; 1.470 g cm ⁻³
No. reflections; GOF	1493; 3.87
No., $F^2_o > 0$; R_F	1464; 0.041
No., $F^2_o > 3\sigma(F^2_o)$; R_F	1414; 0.040
T	22°C
λ	0.71073 Å
μ	2.5 cm ⁻¹

(1) *International Tables for X-ray Crystallography*, Kynoch Press,
Birmingham, 1974, Vol. IV, p 71. p 149;

(2) Larson, E. C. *Acta Cryst.* **1967**, *23*, 664, eqn. 3



1.690. M3

S RMS

**Table S I. Final Heavy Atom Parameters for
3'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

x, y, z and $U_{eq}^a \times 10^4$

Atom	<i>x</i>	<i>y</i>	<i>z</i>	U_{eq}
N	5260(2)	2106(5)	4323(3)	410(8)
C1	5040(3)	2120(6)	3329(4)	508(11)
C2	4317(3)	2322(7)	3016(4)	560(13)
C3	3791(3)	2498(6)	3733(4)	496(10)
C4	4017(3)	2441(6)	4729(3)	448(10)
C5	4760(2)	2264(5)	5045(3)	386(9)
C6	6061(3)	1983(8)	4591(5)	553(12)
C7	5029(2)	2242(6)	6103(3)	459(10)
C8	4628(3)	2719(6)	6849(3)	442(10)
C9	4876(2)	2713(5)	7922(3)	391(9)
C10	4333(3)	2758(6)	8626(3)	405(9)
C11	4537(3)	2768(6)	9648(3)	453(10)
C12	5283(3)	2776(6)	9971(4)	521(11)
C13	5812(3)	2772(7)	9274(4)	558(12)
C14	5621(3)	2727(6)	8253(4)	476(10)
O1	4051(2)	2770(5)	10385(3)	615(9)
C15	3284(3)	2626(9)	10092(5)	641(14)
S	7199	1490(2)	1789	519(3)
O2	6436(2)	1104(6)	1911(3)	812(10)
O3	7718(3)	615(6)	2463(4)	1109(14)
O4	7374(2)	1511(6)	742(3)	900(12)
C16	7273(2)	3938(8)	2073(3)	596(13)
F1	7966(2)	4630(5)	2001(3)	928(10)
F2	7138(2)	4347(5)	3038(3)	1043(10)
F3	6832(2)	5056(5)	1517(3)	1048(10)

^a $U_{eq} = \frac{1}{3} \sum_i \sum_j [U_{ij}(a_i^* a_j^*) (\vec{a}_i \cdot \vec{a}_j)]$

**Table S II. Hydrogen Atom Parameters for
3'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

x, y and z × 10⁴

Atom	<i>x</i>	<i>y</i>	<i>z</i>	<i>B</i>
H1	5432(29)	1901(69)	2924(38)	4.8(11)
H2	4181(28)	2216(63)	2370(44)	4.6(11)
H3	3248(27)	2543(57)	3500(34)	4.1(10)
H4	3598(27)	2539(58)	5289(39)	4.3(10)
H7	5501(27)	1551(58)	6301(33)	4.1(9)
H8	4133(38)	2920(79)	6735(47)	7.0(15)
H10	3875(26)	2772(55)	8407(34)	3.5(9)
H12	5424(25)	2748(57)	10766(38)	4.2(10)
H13	6342(27)	2756(61)	9496(37)	4.1(10)
H14	6031(33)	2679(76)	7782(51)	7.0(14)
H6 A	6314(31)	1607(82)	4033(50)	6.7(14)
H6 B	6183(25)	999(80)	5022(38)	4.7(11)
H6 C	6198(24)	3151(69)	4837(35)	3.8(10)
H15A	3090(53)	2396(114)	10921(73)	11.4(24)
H15B	3184(27)	1304(84)	9684(40)	5.8(12)
H15C	3105(26)	3511(74)	9747(39)	4.4(12)

**Table S III. Anisotropic Displacement Parameters for
3'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
N	397(18)	418(19)	424(19)	-16(14)	97(15)	-16(15)
C1	603(29)	524(25)	410(25)	-52(20)	130(22)	-20(19)
C2	715(34)	560(28)	400(28)	-53(21)	-18(23)	-22(21)
C3	496(25)	484(24)	498(27)	-2(19)	-50(21)	7(19)
C4	437(23)	478(23)	434(26)	-14(16)	65(19)	-20(17)
C5	409(22)	371(20)	386(23)	-5(15)	101(17)	20(16)
C6	373(23)	687(33)	614(31)	-37(22)	143(21)	-77(29)
C7	387(21)	590(26)	400(23)	51(19)	29(18)	11(18)
C8	384(22)	544(24)	397(23)	-9(18)	24(18)	28(18)
C9	403(22)	354(19)	418(23)	6(15)	43(17)	-6(16)
C10	376(22)	463(22)	373(23)	36(18)	-4(17)	-19(17)
C11	582(27)	435(23)	345(23)	61(18)	44(19)	-6(16)
C12	628(28)	520(25)	394(26)	52(20)	-132(21)	-19(19)
C13	458(26)	612(28)	583(29)	14(20)	-130(21)	-42(21)
C14	397(23)	493(25)	534(27)	-15(17)	7(20)	9(18)
O1	627(21)	857(22)	368(16)	66(17)	97(14)	-28(15)
C15	602(32)	770(37)	566(32)	107(26)	157(25)	47(28)
S	336(5)	645(7)	570(6)	19(5)	-21(4)	-69(6)
O2	463(18)	1108(30)	869(25)	-218(19)	77(17)	-1(22)
O3	1066(31)	685(26)	1475(39)	30(21)	-769(29)	161(24)
O4	806(26)	1234(34)	686(24)	62(24)	254(20)	-258(23)
C16	425(28)	775(31)	595(34)	109(24)	77(26)	158(23)
F1	743(19)	783(22)	1251(28)	-218(17)	4(18)	43(19)
F2	1396(30)	1007(24)	739(21)	-6(22)	176(20)	-246(19)
F3	1115(25)	841(22)	1154(28)	326(22)	-205(21)	129(20)

The form of the displacement factor is:

$$\exp -2\pi^2(U_{11}h^2a^{*^2} + U_{22}k^2b^{*^2} + U_{33}\ell^2c^{*^2} + 2U_{12}hka^*b^* + 2U_{13}h\ell a^*c^* + 2U_{23}k\ell b^*c^*)$$

**Table S IV. Complete Distances and Angles for
3'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

Distance(Å)			Angle(°)			Angle(°)		
N -C1	1.359(6)	C5 -N -C1	121.1(4)	H12 -C12 -C13	122.1(24)			
N -C5	1.365(5)	C6 -N -C1	117.5(4)	C14 -C13 -C12	121.3(5)			
N -C6	1.476(7)	C6 -N -C5	121.3(4)	H13 -C13 -C12	120.2(28)			
C1 -C2	1.358(7)	C2 -C1 -N	121.4(4)	H13 -C13 -C14	118.5(28)			
C1 -H1	0.93(5)	H1 -C1 -N	111.9(31)	C13 -C14 -C9	119.4(4)			
C2 -C3	1.396(7)	H1 -C1 -C2	126.6(31)	H14 -C14 -C9	122.9(35)			
C2 -H2	0.88(5)	C3 -C2 -C1	119.1(5)	H14 -C14 -C13	117.6(35)			
C3 -C4	1.364(6)	H2 -C2 -C1	119.9(33)	C15 -O1 -C11	117.9(4)			
C3 -H3	1.01(5)	H2 -C2 -C3	120.7(33)	H15A-C15 -O1	95.4(44)			
C4 -C5	1.392(6)	C4 -C3 -C2	119.0(4)	H15B-C15 -O1	109.2(29)			
C4 -H4	1.10(5)	H3 -C3 -C2	118.9(26)	H15C-C15 -O1	116.1(35)			
C5 -C7	1.462(6)	H3 -C3 -C4	121.8(26)	H15B-C15 -H15A	107.3(52)			
C6 -H6 A	0.93(6)	C5 -C4 -C3	121.7(4)	H15C-C15 -H15A	119.3(56)			
C6 -H6 B	0.92(5)	H4 -C4 -C3	118.6(25)	H15C-C15 -H15B	108.6(45)			
C6 -H6 C	0.91(5)	H4 -C4 -C5	119.7(25)	O3 -S -O2	117.4(3)			
C7 -C8	1.310(6)	C4 -C5 -N	117.7(4)	O4 -S -O2	112.4(2)			
C7 -H7	1.01(5)	C7 -C5 -N	118.7(4)	C16 -S -O2	102.8(2)			
C8 -C9	1.472(6)	C7 -C5 -C4	123.6(4)	O4 -S -O3	116.3(3)			
C8 -H8	0.91(6)	H6 A-C6 -N	110.3(37)	C16 -S -O3	104.6(3)			
C9 -C10	1.399(6)	H6 B-C6 -N	113.1(32)	C16 -S -O4	100.2(2)			
C9 -C14	1.394(6)	H6 C-C6 -N	106.1(29)	F1 -C16 -S	113.2(3)			
C10 -C11	1.389(6)	H6 B-C6 -H6 A	99.8(48)	F2 -C16 -S	113.3(3)			
C10 -H10	0.86(4)	H6 C-C6 -H6 A	113.7(47)	F3 -C16 -S	115.3(4)			
C11 -C12	1.394(7)	H6 C-C6 -H6 B	113.9(43)	F2 -C16 -F1	102.3(4)			
C11 -O1	1.359(6)	C8 -C7 -C5	124.0(4)	F3 -C16 -F1	106.2(4)			
C12 -C13	1.375(7)	H7 -C7 -C5	119.1(26)	F3 -C16 -F2	105.6(4)			
C12 -H12	1.07(5)	H7 -C7 -C8	115.3(26)					
C13 -C14	1.383(7)	C9 -C8 -C7	125.3(4)					
C13 -H13	0.99(5)	H8 -C8 -C7	119.9(39)					
C14 -H14	1.00(6)	H8 -C8 -C9	113.7(39)					
O1 -C15	1.424(7)	C10 -C9 -C8	117.7(4)					
C15 -H15A	1.19(9)	C14 -C9 -C8	122.6(4)					
C15 -H15B	1.09(5)	C14 -C9 -C10	119.7(4)					
C15 -H15C	0.83(5)	C11 -C10 -C9	120.0(4)					
S -O2	1.429(4)	H10 -C10 -C9	118.4(30)					
S -O3	1.403(5)	H10 -C10 -C11	121.6(30)					
S -O4	1.448(4)	C12 -C11 -C10	119.9(4)					
S -C16	1.768(5)	O1 -C11 -C10	124.2(4)					
C16 -F1	1.357(6)	O1 -C11 -C12	115.9(4)					
C16 -F2	1.354(6)	C13 -C12 -C11	119.7(4)					
C16 -F3	1.317(6)	H12 -C12 -C11	118.2(24)					

Crystal Structure Determination of 2'-methoxy- 2-N-methyl stilbazolium triflate. 4

In an opaque test tube crystals of 4 were grown by vapor diffusion of ether into a nearly saturated acetone solution. A small chunk was cut from a needle with a razor blade and glued to a glass fiber with epoxy cement. The crystal was coated with epoxy to prevent damage and then painted with India ink to protect it from light. A preliminary oscillation photograph about the **b** axis appeared normal; the crystal was moved to the diffractometer and preliminary cell dimensions plus an orientation matrix were calculated from the setting angles of 18 reflections with $12^\circ < 2\theta < 17^\circ$. Final cell dimensions came from 25 reflection with $30^\circ < 2\theta < 33^\circ$. The cell chosen had a **c** axis 42 \AA long; data were collected in this cell. Subsequent events indicated the presence of a twin, about 16% as large as the parent crystal. The twin plane was (001), and two of the indexing reflections were from the twin, giving a cell four times larger than the correct one. Thus roughly three-quarters of the data collected were worthless and were discarded later. The reflections belonging to the small cell all had $h-l = 4n$; this relationship implies that the correct cell dimensions are obtained with the matrix 1, 0, 0; 0, 1, 0; -1/4, 0, 1/4. The data were reduced to structure factors, corrected for a slight decay and placed on an approximately absolute scale by Wilson's method. The structure was solved by MULTAN and refined by full matrix least squares. Reflections of the type 5, **k**, **l** were closely superimposed on 5, **k**, **l**+3 from the twin and 7, **k**, **l** on 7, **k**, **l**+4; the 0kl's were also composite. We eventually corrected the 0 **k** **l**'s by dividing F_o and σF_o by 1.08 but were unable to make systematic corrections to the 5 **k** **l**'s and the 7 **k** **l**'s so we deleted those for which F_c for the twin components was greater than about 0.4 times the measured value for the composite reflection. With the smaller data set we had only 935 data and the structure required 227 parameters, a data : parameter ratio of only 4.1, but it was not feasible to collect additional data. The final least squares cycles varied positional and anisotropic thermal parameters for the 25 heavy atoms, a scale factor and a secondary extinction parameter. Hydrogen atoms were included as fixed contributions to the structure factors at calculated positions or, for the methyl groups, at idealized positions based on

difference maps calculated in the expected plane. They were assigned arbitrary isotropic thermal parameters. The final R- index for the 868 reflections with $F_0^2 > 0$ is 0.029, with a goodness of fit for all 935 reflections of 2.15. The R-index for the 798 reflections with $F_0^2 > 3\sigma(F_0^2)$ is 0.025. The final difference map was featureless, with maximum excursions of +0.14 and -0.10 e \AA^{-3} .

Calculations were done with programs of the CRYM Crystallographic Computing System and ORTEP. Scattering factors and corrections for anomalous scattering were taken from a standard reference¹. $R = \sum |F_o - |F_c|| / \sum F_o$, for only $F_o^2 > 0$, and goodness of fit $[\sum w (F_o^2 - F_c^2)^2 / (n - p)]^{1/2}$, where n is the number of data, and p is the number of parameters refined. The function minimized in least squares was $\sum w (F_o^2 - F_c^2)^2$ where $1/\sigma^2(F_o^2)$. Variances of the individual reflection were assigned based on counting statistics plus an additional term, 0.0141I². Variances of the merged reflection were determined by standard propagation of error plus another additional term, 0.0014<I>². The secondary extinction parameter² refined to 0.34(10) x 10⁻⁶.

I-690-M10

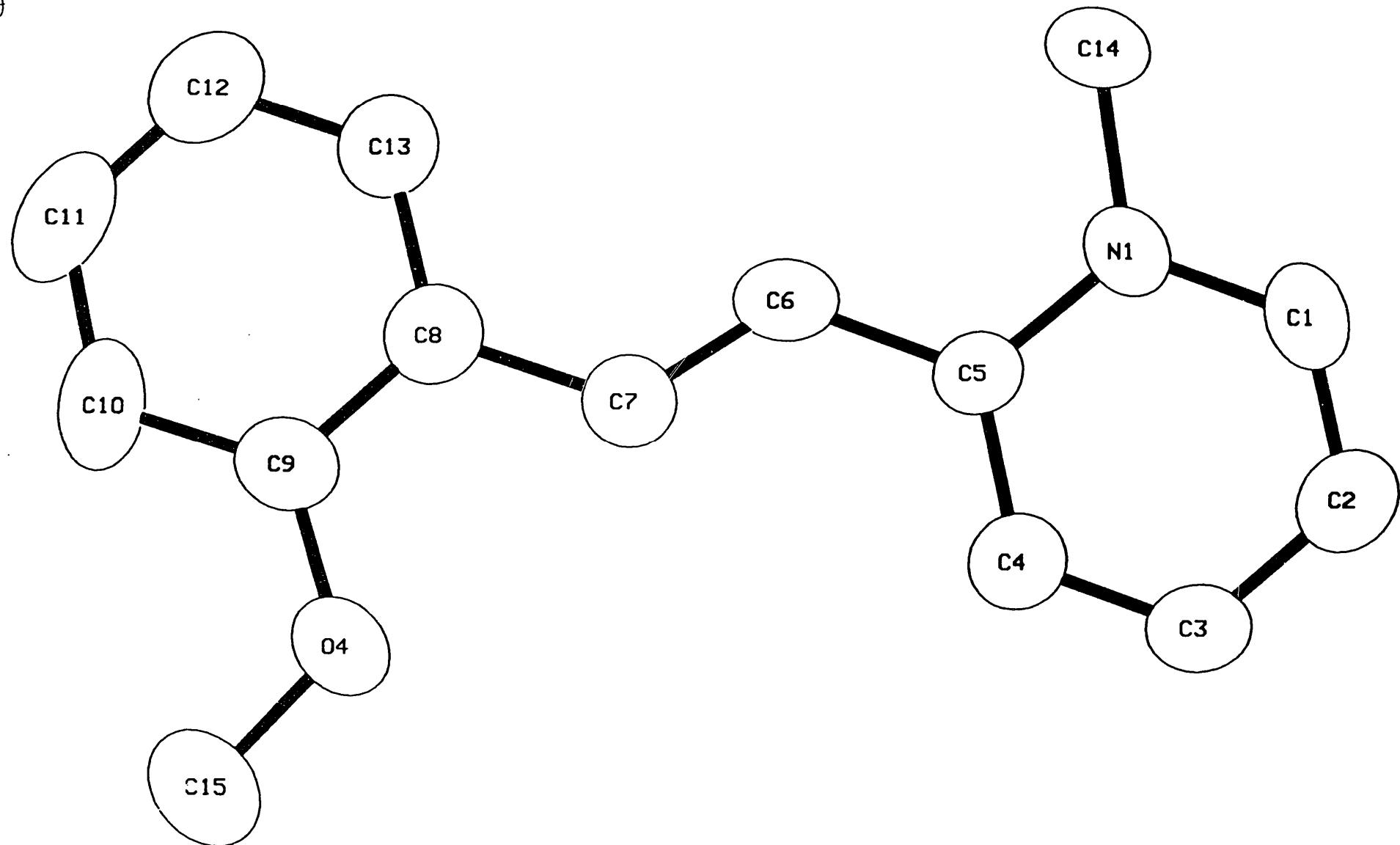
Crystallographic data for 2'-methoxy-2-N-methyl stilbazolium triflate, **4**.

Formula	$C_{15}H_{16}NO \cdot CF_3SO_3$
Formula wt.	397.37
Space group	P2 ₁ /n,(No. 14)
a	11.999(2) Å
b	13.458(2) Å
c	11.043(2) Å
β	108.47(1)°
volume	1691.4(6) Å ³
Z; ρ_{calc}	4; 1.474 g cm ⁻³
No. reflections; GOF	935; 2.15
No., $F^2_o > .0$; R _F	868; 0.029
No., $F^2_o > 3\sigma(F^2_o)$; R _F	798; 0.025
T	23°C
λ	0.71073 Å
μ	2.5 cm ⁻¹

(1) *International Tables for X-ray Crystallography*, Kynoch Press,
Birmingham, 1974, Vol. IV, p 71. p 149;

(2) Larson, E. C. *Acta Cryst.* **1967**, *23*, 664, eqn. 3

I-(690-M) ||



I-690-M12

**Table S VI. Final Heavy Atom Parameters for
2'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

x, y, z and U_{eq}^a × 10⁴

Atom	<i>x</i>	<i>y</i>	<i>z</i>	<i>U_{eq}</i>
N1	4114(4)	1441(2)	2613(4)	439(12)
C1	2970(5)	1540(3)	1910(4)	508(13)
C2	2101(4)	1570(3)	2451(5)	547(14)
C3	2398(4)	1493(3)	3761(5)	518(13)
C4	3552(5)	1405(3)	4469(4)	512(13)
C5	4436(4)	1379(2)	3910(5)	433(14)
C6	5673(5)	1288(3)	4645(5)	569(14)
C7	6085(4)	1097(3)	5885(4)	486(13)
C8	7318(4)	997(3)	6665(5)	487(15)
C9	7592(5)	930(3)	7998(5)	526(15)
C10	8760(5)	889(3)	8773(4)	673(16)
C11	9641(4)	887(3)	8222(6)	777(20)
C12	9389(5)	925(3)	6914(6)	762(18)
C13	8233(5)	985(3)	6154(4)	625(14)
C14	4996(4)	1396(3)	1938(4)	639(13)
O4	6652(3)	918(2)	8430(3)	667(10)
C15	6838(4)	878(3)	9757(4)	801(15)
S	2949(1)	1701(1)	7829(1)	628(4)
O1	2100(3)	1827(2)	6597(2)	771(10)
O2	2492(3)	1769(2)	8875(2)	897(10)
O3	3777(3)	925(2)	7906(3)	1134(13)
C	3825(5)	2811(4)	8014(5)	671(15)
F1	4341(2)	2893(2)	7115(2)	960(8)
F2	4667(2)	2859(2)	9134(3)	1049(10)
F3	3183(3)	3634(2)	7925(2)	977(9)

^a $U_{eq} = \frac{1}{3} \sum_i \sum_j [U_{ij}(a_i^* a_j^*)(\vec{a}_i \cdot \vec{a}_j)]$

I-690-M13

**Table S VII. Assigned Hydrogen Parameters for
2'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

x, y and z × 10⁴

Atom	<i>x</i>	<i>y</i>	<i>z</i>	<i>B</i>
H1	2788	1584	994	6.0
H2	1287	1642	1892	6.0
H3	1786	1515	4164	6.0
H4	3751	1354	5397	6.0
H6	6252	1390	4215	6.0
H7	5492	993	6303	6.0
H10	8943	869	9712	6.0
H11	10441	865	8809	6.0
H12	10051	910	6572	6.0
H13	8054	992	5234	6.0
H14A	5538	1966	2176	7.0
H14B	4653	1407	1040	7.0
H14C	5491	810	2172	7.0
H15A	7198	1466	10196	7.0
H15B	7328	316	10157	7.0
H15C	6097	788	9953	7.0

**Table S VIII. Anisotropic Displacement Parameters for
2'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
N1	477(35)	484(20)	347(29)	-2(18)	117(26)	45(16)
C1	537(36)	527(26)	385(28)	29(25)	38(37)	5(20)
C2	472(35)	532(27)	636(38)	20(25)	173(32)	-10(22)
C3	516(42)	555(26)	539(33)	15(24)	246(31)	-32(21)
C4	482(37)	549(26)	515(30)	11(24)	170(34)	-25(21)
C5	386(41)	488(25)	442(39)	-1(22)	155(35)	30(21)
C6	509(38)	766(30)	504(33)	-49(26)	262(33)	42(23)
C7	480(37)	502(24)	476(32)	13(23)	152(31)	48(21)
C8	509(42)	383(25)	565(42)	6(24)	166(36)	32(21)
C9	599(47)	490(26)	520(41)	-37(26)	222(39)	6(22)
C10	510(38)	651(30)	670(34)	-73(28)	-78(38)	14(24)
C11	407(39)	840(35)	982(47)	-5(30)	74(35)	92(31)
C12	567(47)	857(34)	877(42)	-26(30)	251(36)	135(30)
C13	525(36)	735(31)	606(33)	-36(28)	168(36)	129(24)
C14	578(31)	953(34)	466(26)	90(25)	278(26)	102(22)
O4	632(24)	948(22)	416(21)	57(18)	157(18)	20(15)
C15	876(37)	973(34)	540(32)	51(29)	206(29)	70(25)
S	474(9)	869(10)	547(10)	26(8)	171(8)	82(7)
O1	621(20)	1181(24)	433(18)	-149(18)	58(19)	-22(16)
O2	819(23)	1486(28)	495(17)	-193(20)	365(19)	85(17)
O3	796(28)	852(23)	1736(35)	317(24)	374(24)	151(22)
C	557(32)	974(41)	494(33)	31(34)	184(32)	2(30)
F1	819(20)	1343(22)	880(18)	-276(18)	500(18)	-66(16)
F2	738(19)	1543(24)	691(18)	-269(20)	-20(18)	-67(17)
F3	1077(27)	856(19)	1001(21)	74(19)	333(20)	-35(15)

$U_{i,j}$ values have been multiplied by 10^4

The form of the displacement factor is:

$$\exp -2\pi^2(U_{11}h^2a^{*2} + U_{22}k^2b^{*2} + U_{33}\ell^2c^{*2} + 2U_{12}hka^*b^* + 2U_{13}h\ell a^*c^* + 2U_{23}k\ell b^*c^*)$$

**Table S IX. Complete Distances and Angles for
2'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

	Distance(Å)		Distance(Å)
N1 -C1	1.353(6)	C -F3	1.334(6)
N1 -C5	1.363(6)		
N1 -C14	1.476(5)		
C1 -C2	1.356(7)		
C1 -H1	0.967		
C2 -C3	1.379(7)		
C2 -H2	0.981		
C3 -C4	1.362(6)		
C3 -H3	0.973		
C4 -C5	1.386(6)		
C4 -H4	0.978		
C5 -C6	1.454(7)		
C6 -C7	1.325(6)		
C6 -H6	0.968		
C7 -C8	1.464(6)		
C7 -H7	0.974		
C8 -C9	1.406(7)		
C8 -C13	1.384(7)		
C9 -C10	1.393(7)		
C9 -O4	1.357(6)		
C10 -C11	1.377(7)		
C10 -H10	0.990		
C11 -C12	1.380(7)		
C11 -H11	0.974		
C12 -C13	1.378(7)		
C12 -H12	0.982		
C13 -H13	0.969		
C14 -H14A	0.987		
C14 -H14B	0.946		
C14 -H14C	0.971		
O4 -C15	1.411(5)		
C15 -H15A	0.957		
C15 -H15B	0.974		
C15 -H15C	0.986		
S -O1	1.428(3)		
S -O2	1.430(3)		
S -O3	1.425(4)		
S -C	1.801(5)		
C -F1	1.330(6)		
C -F2	1.328(6)		

Table S IX. (Cont.)

	Angle(°)		Angle(°)
C5 -N1 -C1	120.4(4)	C15 -O4 -C9	119.4(3)
C14 -N1 -C1	118.3(4)	O2 -S -O1	114.9(2)
C14 -N1 -C5	121.2(4)	O3 -S -O1	114.7(2)
C2 -C1 -N1	122.2(4)	C -S -O1	102.9(2)
H1 -C1 -N1	117.2	O3 -S -O2	115.9(2)
H1 -C1 -C2	120.7	C -S -O2	102.4(2)
C3 -C2 -C1	118.7(4)	C -S -O3	103.3(2)
H2 -C2 -C1	118.5	F1 -C -S	112.1(3)
H2 -C2 -C3	122.8	F2 -C -S	112.9(4)
C4 -C3 -C2	119.1(4)	F3 -C -S	112.2(3)
H3 -C3 -C2	119.8	F2 -C -F1	107.2(4)
H3 -C3 -C4	121.2	F3 -C -F1	105.7(4)
C5 -C4 -C3	121.9(4)	F3 -C -F2	106.2(4)
H4 -C4 -C3	118.3		
H4 -C4 -C5	119.8		
C4 -C5 -N1	117.7(4)		
C6 -C5 -N1	119.4(4)		
C6 -C5 -C4	122.9(4)		
C7 -C6 -C5	125.0(4)		
H6 -C6 -C5	118.6		
H6 -C6 -C7	116.3		
C8 -C7 -C6	127.1(4)		
H7 -C7 -C6	115.3		
H7 -C7 -C8	117.6		
C9 -C8 -C7	118.6(4)		
C13 -C8 -C7	123.1(4)		
C13 -C8 -C9	118.3(4)		
C10 -C9 -C8	120.1(4)		
O4 -C9 -C8	115.1(4)		
O4 -C9 -C10	124.7(4)		
C11 -C10 -C9	119.5(5)		
H10 -C10 -C9	119.4		
H10 -C10 -C11	121.2		
C12 -C11 -C10	121.3(5)		
H11 -C11 -C10	115.9		
H11 -C11 -C12	122.8		
C13 -C12 -C11	118.9(5)		
H12 -C12 -C11	117.8		
H12 -C12 -C13	123.3		
C12 -C13 -C8	121.9(5)		

**Table S V. Observed and Calculated Structure Factors for
3'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

I-690-M17

The columns contain, in order, h , $10F_{obs}$, $10F_{calc}$ and $10\left(\frac{F_{obs}^2 - F_{calc}^2}{\sigma F_{obs}^2}\right)$.
A minus sign preceding F_{obs} , indicates that F_{obs}^2 is negative.

3'-Methoxy-2-N-Methyl Stilbazolium Triflate										Page	1		
h	0	0	8	363	367	-14				7	280	273	
			10	144	141	20	1	87	76	126	9	582	
			12	409	407	5	3	195	207	-81	11	361	
2	213	222	-54	14	102	104	-16	5	191	198	-40	13	211
4	1498	1431	56	16	153	158	-22	7	463	470	-18	15	218
6	534	499	79	18	107	115	-36	9	477	494	-46	17	200
8	212	219	-40				11	179	185	-37	19	83	
10	641	631	19	h	0	8	13	70	67	28			
12	456	431	67				15	132	135	-18	h	1	
14	292	279	54	-18	95	103	-33	17	133	130	18		
16	231	228	15	-16	187	200	-49	19	86	79	40	-19	68
18	156	153	18	-14	306	307	-3	21	38	39	-3	-17	129
20	125	121	24	-12	241	214	107					-15	83
			-10	323	300	73	h	1	1			-13	94
h	0	2		-8	333	318	48					-11	194
				-6	523	527	-8	-21	75	76	-4	-9	346
-20	115	114	7	-4	575	565	18	-19	44	48	1	-7	185
-18	52	50	8	-2	399	400	-2	-17	105	106	-11	-5	136
-16	308	313	-15	0	633	600	43	-15	320	305	48	-3	379
-14	517	504	29	2	516	508	17	-13	286	285	1	-1	269
-12	305	311	-20	4	177	178	-7	-11	258	259	-2	1	111
-10	217	209	37	6	127	118	58	-9	268	259	38	3	329
-8	93	92	8	8	255	254	4	-7	508	485	52	5	310
-6	205	215	-51	10	184	166	85	-5	528	502	54	7	195
-4	1376	1380	-3	12	315	292	73	-3	1371	1387	28	9	262
-2	1752	1895	-98	14	152	148	18	-1	871	846	32	11	231
0	413	378	93	16	163	159	15	1	888	866	2	13	257
2	2106	2102	1				3	1105	1084	21	15	195	
4	1143	1124	19	h	0	10	5	619	616	5	17	147	
6	346	328	57				7	883	829	68	19	75	
8	338	332	19	-16	73	95	-105	9	951	878	84		
10	184	181	13	-14	8	24	-25	11	506	473	71	h	1
12	547	545	3	-12	340	338	5	13	308	304	12		
14	524	519	11	-10	107	103	23	15	243	227	64	-19	62
16	144	138	35	-8	290	280	37	17	148	146	10	-17	146
18	254	268	-45	-6	268	279	-43	19	91	83	33	-15	323
20	34	37	-10	-4	599	590	16	21	126	128	-7	-13	181
			-2	183	193	-57						-11	82
h	0	4		0	281	284	-11	h	1	2		-9	583
				2	276	283	-28					-7	621
-20	105	108	-12	4	107	110	-18	-21	64	51	43	-5	945
-18	101	104	-14	6	186	192	-27	-19	72	67	18	-3	261
-16	480	475	10	8	229	219	41	-17	69	64	29	-1	139
-14	519	519	-1	10	172	162	52	-15	146	142	25	1	582
-12	549	555	-13	12	145	134	43	-13	149	151	-12	3	298
-10	119	122	-19	14	126	128	-5	-11	326	341	-52	5	297
-8	168	169	-1				-9	522	546	-54	7	146	142
-6	427	406	55	h	0	12	-7	493	520	-66	9	107	101
-4	37	43	-62				-5	311	340	-110	11	335	334
-2	1049	1081	-35	-14	73	75	-6	-3	106	109	-28	13	248
0	798	806	-11	-12	10	15	-5	-1	214	232	-97	15	192
2	641	617	43	-10	7	10	-3	1	334	372	-134	17	73
4	374	362	34	-8	127	125	9	3	307	338	-120	19	57
6	694	685	15	-6	109	105	22	5	189	214	-149		
8	216	222	-29	-4	204	198	24	7	237	245	-36	h	1
10	147	150	-18	-2	123	132	-60	9	54	55	-7		6
12	355	358	-9	0	153	162	-55	11	163	165	-13	-19	42
14	217	223	-28	2	213	215	-6	13	215	222	-35	-17	54
16	336	356	-68	4	264	296	-134	15	223	223	0	-15	69
18	18	23	-10	6	167	163	19	17	164	164	-1	-13	93
20	103	119	-71	8	76	87	-52	19	74	75	-5	-11	164
	h	0	6	10	111	118	-30	h	1	3		-7	80
			12	51	46	18						-5	389
-20	180	183	-12	h	0	14	-21	164	155	31	-3	470	500
-18	128	133	-21				-19	47	48	-3	-1	282	316
-16	155	164	-40	-10	59	62	-10	-17	269	260	27	1	215
-14	274	273	1	-8	95	81	56	-15	238	245	-28	3	161
-12	490	477	28	-6	79	73	25	-13	438	481	16	5	221
-10	324	317	20	-4	109	113	-15	-11	157	144	73	7	196
-8	342	325	51	-2	29	34	-14	-9	158	156	9	9	217
-6	369	359	30	0	74	70	17	-7	410	389	59	11	114
-4	297	313	-63	2	72	78	-27	-5	460	422	91	13	188
-2	640	659	-34	4	96	93	13	-3	251	261	-42	15	142
0	987	967	22	6	67	76	-38	-1	1005	1016	-12	17	88
2	819	741	104	8	29	26	6	1	913	875	47	19	31
4	757	700	99				3	279	269	41			
6	237	233	19	h	1	0	5	108	104	26	h	1	7

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-19	107	117	-45	11	54	53	3	2	2282	2231	27	14	221	225	-14	
-17	103	105	-7	13	73	70	9	4	136	140	-38	16	255	264	-30	
-15	134	135	-5	15	58	58	-2	6	292	293	-4	18	95	84	46	
-13	255	250	18	h	1	11		8	328	314	49	20	100	103	-13	
-11	298	300	-7					10	283	273	38					
-9	248	248	0	-15	92	94	-5	12	207	192	84	h	2	4		
-7	305	282	80	-13	49	50	-1	14	57	58	-5					
-5	144	148	-26	-11	90	92	-7	16	88	85	23	-20	76	70	22	
-3	414	411	9	-9	133	134	-5	18	60	60	-1	-18	91	91	-1	
-1	471	485	-35	-7	217	213	18	20	61	63	-7	-16	359	339	48	
1	275	265	40	-5	609	610	-2	h	2	1		-14	459	465	-13	
3	324	314	34	-3	499	468	67					-12	286	282	14	
5	75	73	19	-1	288	281	25	-20	65	63	8	-10	128	117	72	
7	218	226	-37	1	140	140	0	-18	88	84	17	-6	254	239	61	
9	799	790	12	3	183	186	-15	-16	112	118	-34	-4	265	265	0	
11	456	464	-19	5	64	54	61	-14	185	185	0	-2	118	117	11	
13	374	368	16	7	127	131	-22	-12	165	177	-69	0	333	308	80	
15	85	91	-25	9	110	112	-8	-10	189	208	-102	2	544	524	40	
17	85	83	6	11	81	66	59	-8	352	375	-78	4	327	333	-20	
				13	54	57	-9	-6	335	343	-28	6	337	321	50	
h	1	8						-4	472	456	39	8	505	494	24	
				h	1	12		-2	515	522	-16	10	193	187	30	
-17	30	32	-3					0	827	808	25	12	156	149	40	
-15	64	70	-25	-13	47	51	-14	2	990	1024	-39	14	114	107	42	
-13	94	90	23	-11	59	60	-7	4	388	424	-110	16	165	157	29	
-11	153	149	26	-9	88	91	-13	6	100	106	-50	18	72	88	-71	
-9	139	136	14	-7	30	40	-34	8	125	125	1					
-7	38	37	3	-5	95	99	-30	10	219	221	-10	h	2	5		
-5	89	91	-16	-3	60	74	-96	12	226	233	-31					
-3	189	191	-9	-1	116	128	-75	14	212	218	-25	-20	63	58	16	
-1	119	120	-12	1	150	153	-18	16	148	145	12	-18	61	52	30	
1	81	87	-48	3	192	193	-2	18	110	112	-8	-16	129	128	6	
3	169	173	-23	5	154	151	-16	20	73	75	-7	-14	245	244	3	
5	192	195	-15	7	91	94	-16					-12	99	102	-21	
7	154	156	-10	9	73	75	-5	h	2	2	-10	199	201	-10		
9	121	132	-73	11	52	52	1				-8	161	163	-12		
11	169	177	-40					-20	94	92	10	-6	205	207	-10	
13	50	57	-30	h	1	13		-18	44	49	-18	-4	350	350	0	
15	76	79	-15					-16	232	228	15	-2	281	299	-74	
17	49	55	-23	-13	68	62	23	-14	273	281	-28	0	149	150	-6	
				-11	82	82	2	-12	201	183	88	2	393	394	-4	
h	1	9		-9	62	64	-7	-10	366	355	35	4	369	352	48	
				-7	48	41	22	-8	266	253	55	6	253	246	29	
-17	70	75	-21	-5	53	58	-19	-6	-12	20	-81	8	117	123	-41	
-15	142	148	-23	-3	139	137	6	-4	155	158	-25	10	181	178	18	
-13	275	289	-46	-1	61	50	40	-2	427	422	14	12	249	256	-29	
-11	141	149	-48	1	22	20	5	0	1570	1529	29	14	193	199	-29	
-9	211	215	-19	3	63	64	-3	2	539	533	11	16	158	157	7	
-7	331	327	15	5	100	94	24	4	510	517	-18	18	96	104	-33	
-5	304	290	49	7	50	54	-15	6	98	96	18					
-3	356	363	-22	9	83	79	13	8	596	551	83	h	2	6		
-1	345	341	12					10	-21	1	-33					
1	239	229	41	h	1	14		12	146	126	112	-18	48	51	-8	
3	190	193	-18					14	122	115	39	-16	19	13	9	
5	285	275	35	-9	47	47	0	16	161	177	-94	-14	72	66	34	
7	220	215	24	-7	-17	20	-39	18	132	136	-18	-12	134	137	-21	
9	124	132	-55	-5	23	28	-12	20	49	64	-59	-10	113	113	-1	
11	459	444	35	-3	29	37	-23					-8	116	120	-27	
13	35	35	0	-1	52	60	-34	h	2	3	-6	264	268	-15		
15	93	85	35	1	77	77	0				-4	232	232	0		
				3	63	68	-18	-20	68	59	33	-2	88	90	-15	
h	1	10		5	73	74	-3	-18	74	72	10	0	415	384	83	
				7	29	41	-35	-16	201	190	48	2	779	735	62	
-17	27	29	-5					-14	85	82	23	4	549	516	66	
-15	33	38	-15	h	1	15		-12	263	273	-40	6	386	398	-37	
-13	98	96	7					-10	230	248	-88	8	142	140	11	
-11	140	136	22	-7	81	73	30	-8	322	345	-81	10	83	83	3	
-9	155	151	22	-5	28	31	-9	-6	203	209	-34	12	152	143	48	
-7	121	128	-41	-3	47	50	-9	-4	296	298	-7	14	129	131	-7	
-5	101	113	-81	-1	69	62	26	-2	497	500	-8	16	79	73	23	
-3	99	102	-21	1	43	38	20	0	612	614	-4	18	88	93	-19	
-1	126	138	-81	3	114	105	36	2	456	497	-107					
1	204	209	-21	5	35	45	-27	4	492	532	-97	h	2	7		
3	246	248	-5					6	327	336	-32					
5	194	199	-21	h	2	0		8	245	253	-35	-18	95	89	24	
7	172	172	-1		0	2210	2224	-7	10	273	271	6	-16	62	64	-9
9	99	99	0	0	2210	2224	-7	12	220	233	-62	-14	108	108	0	

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-12	160	168	-44	-14	58	68	-41		h	3	1	-5	320	313	21	
-10	208	205	15	-12	67	59	32					-3	122	125	-23	
-8	219	207	53	-10	173	167	22	-19	50	45	15	-1	425	427	-3	
-6	85	84	7	-8	114	102	68	-17	77	79	-8	1	330	324	20	
-4	189	167	9	-6	229	223	23	-15	24	19	16	3	284	277	27	
-2	269	279	-41	-4	76	71	31	-13	241	239	7	5	198	209	-57	
0	286	284	6	-2	174	176	-12	-11	147	149	-10	7	132	135	-22	
2	156	149	44	0	247	245	7	-9	129	119	60	9	174	173	2	
4	223	219	17	2	186	186	-3	-7	79	86	-57	11	136	141	-34	
6	139	133	38	4	273	274	-3	-5	236	220	66	13	157	159	-11	
8	166	160	33	6	115	113	8	-3	321	304	59	15	75	74	1	
10	108	103	16	8	140	141	-3	-1	925	841	99	17	110	109	7	
12	147	144	17	10	100	89	46	1	896	844	66					
14	142	151	-39	12	106	101	20	3	433	420	34					
16	86	87	-4					5	108	92	115	h	3	5		
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-4	18	23	-15					9	21	16	9	h
-2	72	67	30	h	6	10						8
0	133	135	-10	-6	101	103	-7	h	7	4	-6	94
2	88	92	-28	-4	113	102	41				-4	53
4	72	81	-56	-2	139	134	16	-9	81	81	-1	162
6	23	21	5	0	83	72	41	-7	127	125	5	172
8	62	61	4	2	73	74	-2	-5	101	105	-19	124
10	29	31	-4	4	43	46	-10	-3	90	91	-4	96
12	31	35	-13					-1	-15	17	-29	89
	h	6	6	h	6	11		1	64	57	25	78
-12	30	35	-15	-2	35	24	24	3	70	67	12	h
-10	62	62	0	0	61	56	14	5	61	54	25	8
-8	-3	26	-35	h	7	0		7	116	109	29	-4
-6	84	84	3					9	36	27	22	-2
-4	100	102	-10	1	66	67	-6	h	7	5	2	97
-2	119	117	12	3	108	91	97	-9	42	51	-29	4
0	37	48	-42	5	40	32	31	-7	46	56	-37	83
2	164	171	-31	7	195	180	66	-5	53	56	7	57
4	83	85	-10	9	48	40	36	-3	65	69	-15	57
6	30	42	-37	11	126	122	21	-1	-13	8	-13	-2
8	40	44	-13					1	22	29	-17	0
10	48	49	-4	h	7	1		3	43	50	-26	2
12	31	35	-10	-11	54	48	20	7	27	29	-3	4
	h	6	7	-9	11	4	4	9	16	11	5	h
-12	51	43	22	-7	21	13	13					-2
-10	14	25	-20	-3	145	154	-39	h	7	6		0
-8	-7	9	-7	-1	56	61	-19	-9	56	52	11	2
-6	65	62	11	1	45	60	-63	-7	68	65	9	46
-4	8	19	-15	3	-13	9	-13	-5	89	88	0	46
-2	121	119	11	5	28	29	-3	-3	48	38	31	31

**Table S X. Observed and Calculated Structure Factors for
2'-Methoxy-2-N-Methyl Stilbazolium Triflate.**

The columns contain, in order, ℓ , $10F_{obs}$, $10F_{calc}$ and $10\left(\frac{F_{obs}^2 - F_{calc}^2}{\sigma F_{obs}^2}\right)$. A minus sign preceding F_{obs} indicates that F_{obs}^2 is negative.

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2'-Methoxy-2-N-Methyl Stilbazolium Triflate								Page	1
-10	0	1	5	95	95	1	5	365	353
			6	-26	11	-17	6	18	9
4	111	113	-10	-8	5	1	7	22	11
					8	152	147	13	2
-10	1	1	3	180	179	2	-6	3	7
			4	261	266	-9			
3	126	120	24	5	311	305	11	2	3
4	185	189	-7	6	252	250	4	4	4
-9	0	1	-8	6	1		2	120	121
							3	302	293
3	45	44	1	3	-3	26	-13	-6	-10
5	243	240	6	4	36	54	-59	19	8
			5	23	13	6	5	378	381
-9	1	1	-7	0	1		6	105	106
3	32	28	4				7	22	23
4	175	180	-12	3	159	145	37	-3	2
5	253	249	8	5	227	217	22	3	39
6	85	85	0	-7	1	1	4	245	245
-9	2	1	5	249	251	-4	5	223	218
3	74	74	0	8	168	167	2	6	193
4	54	61	-26	-7	2	1	7	192	192
5	106	106	-1				8	171	171
6	46	54	-25	6	173	175	-3	-3	-1
-9	3	1	8	320	311	17	2	19	23
3	48	43	15	-7	3	1	3	112	108
4	231	237	-13				4	-24	0
5	22	34	-26	4	162	165	-10	5	-15
-9	4	1	-7	4	1		6	38	35
3	6	0	1	3	116	110	26	7	8
4	105	106	-5	4	195	197	-3	8	104
5	35	22	12	-7	5	1	9	109	109
-9	5	1	7	211	196	29	-4	0	-22
3	-21	4	-8	3	270	272	-3	2	1
			4	305	285	41	3	178	172
			5	380	350	18	-6	7	1
-8	0	1	6	207	186	42	3	-14	9
			7	89	85	18	4	35	-6
4	33	20	32	-7	6	1	5	130	132
6	77	80	-13				6	133	136
-8	1	1	3	87	76	47	6	73	71
3	89	90	-4	-7	7	1	7	172	172
4	181	172	20				8	119	112
5	86	91	-23	5	247	245	4	-6	26
6	91	88	15	-6	0	1	2	112	106
7	-29	14	-22				3	-22	6
-8	2	1	2	192	198	-16	4	-12	-25
			4	228	221	17	5	20	-25
3	207	215	-19	6	171	163	18	6	33
4	-27	8	-20	8	243	241	3	5	40
5	140	139	2	-6	1	1	7	40	-8
6	55	62	-24				8	99	106
7	180	181	-1	2	169	178	-25	9	-28
-8	3	1	3	251	248	8	5	404	411
			4	157	167	-29	7	298	302
3	60	55	21	5	297	282	32	9	-9
4	3	5	0	6	418	418	0	5	133
5	310	309	2	7	80	83	-13	6	135
6	82	84	-5	8	119	129	-42	7	211
7	188	172	37	-6	2	1	8	125	125
-8	4	1	2	236	244	-21	2	229	230
					3	488	-485	-1	-4
-8	4	1	2	705	690	19	5	327	311
3	26	13	9	3	265	263	4	7	32
4	-15	31	-26	4	122	126	-18	8	207
					-5	2	1	3	244
							5	31	30

2'-Methoxy-2-N-Methyl Stilbazolium Triflate

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2'-Methoxy-2-N-Methyl Stilbazolium Triflate										Page	3	
6	109	109	0	4	58	53	28	6	7	32	-49	
7	67	68	-5	6	23	24	-1				0 1565 1552 8	
8	228	227	2	8	91	90	1	0	8	1	1 197 202 -17	
											2 357 358 -1	
											3 26 31 -20	
-1	4	1		0	1	1		0	109	105	22	
1	944	937	7	1	138	135	15	1	562	573	-17	
2	321	330	-21	2	850	841	10	2	120	125	-19	
3	644	654	-14	3	325	314	27	3	96	101	-21	
4	125	133	-29	4	281	272	22	4	-28	8	-22	
5	514	518	-7	5	505	482	40	5	112	109	13	
6	39	46	-25	6	146	145	0	6	54	63	-38	
7	20	6	7	7	-20	21	-22		0	9	1	
8	109	110	-4	8	237	242	-12				0 524 530 -18	
								1	144	150	-18	
								2	30	39	-14	
								3	87	87	0	
								4	65	64	5	
-1	5	1		0	2	1		5	175	172	7	
1	354	365	-25	0	1001	982	18	4	108	106	8	
2	45	43	10	1	510	485	45	5	43	42	0	
3	147	143	11	2	560	560	0				6 68 64 18	
4	136	141	-15	3	225	221	13	0	10	1		
5	444	437	11	4	99	99	0				1 6 1	
6	240	244	-10	5	615	613	2	0	78	70	34	
7	161	160	3	6	249	249	-1	1	424	411	23	
8	25	29	-3	7	102	98	21	2	38	30	21	
				8	57	44	46	3	60	56	15	
								4	140	144	-12	
-1	6	1						5	326	323	6	
				0	3	1		5	157	154	6	
1	433	432	3					6	129	131	-7	
2	80	81	-4	1	536	540	-6		7	92	93	-7
3	17	6	7	2	254	245	27	1	187	174	34	
4	125	120	15	3	276	276	0	2	104	99	22	
5	167	159	17	4	304	303	3			1 7 1		
6	87	89	-9	5	414	415	-2	1	0	1		
7	58	60	-8	6	170	167	8	1	63	63	-4	
				7	198	189	16	2	171	176	-15	
				8	149	149	1	3	84	83	7	
-1	7	1						4	107	112	-20	
1	50	55	-23		0	4	1	5	126	128	-5	
2	67	68	4					6	24	38	-35	
3	-27	15	-30	0	2540	2524	6	1	1	1		
4	93	91	8	1	1178	1164	11				1 8 1	
5	115	114	3	2	604	601	5	0	420	420	-1	
6	144	150	-19	3	71	75	-25	1	289	266	64	
7	127	119	24	4	-14	3	-13	2	37	37	1	
				5	18	26	-11	3	504	500	7	
-1	8	1		6	-15	33	-34	4	-18	3	-10	
				7	83	87	-15	5	284	298	-33	
1	393	392	1	8	13	29	-14	6	27	29	15	
2	362	359	5					7	372	382	-19	
3	99	103	-15	0	5	1		8	182	182	0	
4	211	204	16							1 9 1		
5	86	92	-27	1	15	4	16	1	2	1	51	
6	23	38	-36	2	168	169	-3			1 118 124 -27		
				3	47	49	-10	0	120	106	57	
-1	9	1		4	97	91	26	1	622	624	-2	
				5	27	32	-8	2	406	421	-33	
1	103	100	10	6	84	84	0	3	94	92	7	
2	106	102	17	7	200	192	17	4	136	133	10	
3	48	50	-8					5	39	32	25	
4	-22	8	-28	0	6	1		6	163	162	0	
5	245	247	-4					7	119	118	4	
				0	67	63	25	8	136	145	-30	
-1	10	1		1	76	73	15			1 73 71 11		
				2	260	263	-9	1	3	159 155 11		
1	28	11	12	3	55	54	4		3	42 50 -25		
2	205	203	4	4	251	245	13	0	354	363	-21	
3	-10	4	-2	5	108	105	11	1	828	842	-16	
4	141	144	-6	6	239	238	1	2	160	167	-23	
				7	-28	3	-17	3	229	223	14	
-1	11	1						4	52	49	16	
				0	7	1		5	64	61	14	
1	15	8	6	1	286	292	-14	6	40	36	16	
2	24	21	1	2	8	2	5	7	45	42	10	
0	0	1		3	13	14	-2	8	228	236	-17	
2	1773	1827	-31	4	77	80	-16				0 1071 1038 30	
				5	-22	6	-28	1	4	200	196 9	
								2	58	55	19	
								3	346	341	10	
								4	183	178	11	

2'-Methoxy-2-N-Methyl Stilbazolium Triflate

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							3	5	1				4	3	1
2	1	1		0	201	200	3								
0	1198	1183	12	1	112	109	10	0	84	79	23	-1	174	181	-28
1	188	185	9	2	82	79	13	1	374	370	7	0	82	80	10
2	837	853	-26	3	66	61	20	2	115	117	-8	1	495	485	16
3	10	2	3	4	-14	32	-25	3	302	303	-1	2	310	296	30
4	604	613	-12	5	-25	23	-24	4	-5	13	-5	3	216	219	-5
5	57	62	-25		2	9	1	5	228	226	4	4	-13	3	-4
6	395	394	1		1	107	107	6	280	278	4	5	336	351	-31
7	175	163	28	0	57	55	8	3	6	1	6	169	164	15	
8	120	114	20	1	107	107	3								
				2	-20	9	-11	0	420	414	10	4	4	1	
2	2	1		3	155	153	5	1	341	356	-31	-1	678	683	-8
0	118	111	26	4	41	35	6	2	170	175	-13	0	-12	2	-5
1	777	779	-3		2	10	1	3	53	54	-4	1	77	77	-3
2	48	52	-22					4	40	41	-5	2	364	370	-11
3	232	227	13	0	12	44	-36	5	24	21	6	3	217	223	-15
4	83	85	-12	1	28	41	-17	6	24	38	-11	4	-13	6	-5
5	32	38	-21	2	52	55	-12		3	7	1	5	37	42	-14
6	133	135	-4	3	35	41	-16	0	267	262	12	6	312	301	20
7	78	66	48		2	11	1	1	44	39	19	4	5	1	
				0	72	71	6	2	167	167	0				
2	3	1		3	0	1		3	116	114	8	-1	430	427	6
0	130	117	42					4	30	37	-9	0	339	340	-2
1	205	199	17	3				5	225	227	-4	1	421	425	-7
2	396	409	-27									2	152	153	-3
3	7	10	-1	1	285	279	15		3	8	1	3	308	310	-4
4	11	30	-22	3	756	737	23					4	156	156	1
5	14	17	-2	5	545	545	0	0	45	50	-21	5	151	158	-20
6	127	112	45	7	197	198	-3	1	-23	14	-19				
7	214	217	-6					2	196	191	13	4	6	1	
				3	1	1		3	39	38	2				
2	4	1						4	-35	1	-29	-1	325	329	-10
0	708	700	11	0	378	379	-1		3	9	1	0	379	388	-17
1	440	447	-13	1	546	553	-12					1	63	60	13
2	116	119	-12	2	33	36	-12	0	-31	28	-47	2	78	80	-8
3	84	84	-1	3	767	767	0	1	-16	0	-5	3	-11	14	-8
4	71	70	1	4	38	18	26	2	117	112	23	4	168	158	23
5	156	149	19	5	208	206	4	3	-24	7	-13	5	92	92	0
6	51	55	-19	6	182	184	-3					4	7	1	
7	100	102	-7	7	67	60	23		3	10	1				
				3	2	1						-1	98	104	-39
2	5	1		0	800	794	10	0	114	123	-37	0	131	131	0
0	282	286	-11	1	90	88	5	1	116	124	-27	1	211	217	-12
1	150	141	23	2	275	275	0	2	-37	20	-41	2	278	282	-9
2	347	343	8	3	172	178	-15		4	0	1	3	74	74	0
3	48	49	-2	4	273	275	-4					4	177	175	3
4	196	185	28	5	248	247	3	0	379	370	20				
5	39	44	-17	6	84	85	-6	2	377	366	22	4	8	1	
6	102	94	28	7	58	44	43	4	547	545	1	-1	162	162	2
7	98	94	15					6	415	402	22	0	123	120	12
				3	3	1						1	94	91	12
2	6	1		0	44	46	-8	4	1	1		2	78	78	0
0	503	512	-15	1	596	595	1	-1	129	128	0	3	222	222	0
1	224	231	-18	2	-2	1	0	0	362	351	25	4	73	75	-6
2	218	218	0	3	105	98	24	1	-14	3	-7	4	9	1	
3	84	82	7	4	34	25	27	2	8	9	0				
4	16	36	-24	5	144	152	-25	3	54	53	4	-1	99	105	-33
5	66	63	4	6	69	72	-10	4	38	28	33	0	140	137	11
6	-26	11	-17	7	171	181	-23	5	239	242	-6	1	112	121	-29
								6	87	87	0	2	-14	18	-21
2	7	1		3	4	1		4	2	1		3	164	167	-6
0	-5	2	0	0	876	867	9					4	10	1	
1	169	174	-12	1	70	68	12	-1	137	136	5				
2	-16	21	-19	2	362	355	15	0	410	404	13	-1	77	79	-7
3	-24	12	-20	3	176	159	42	1	237	236	1	0	77	77	0
4	42	46	-14	4	49	46	13	2	173	176	-10	1	10	0	2
5	23	32	-21	5	48	50	-7	3	69	68	6				
6	13	21	-12	6	67	62	16	4	384	384	0	5	0	1	
				7	146	152	-16	5	20	22	-2				
2	8	1						6	35	18	35	-1	760	752	10

2'-Methoxy-2-N-Methyl Stilbazolium Triflate

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