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THE CRYSTAL AND MOLECULAR STRUCTURE OF 2-(N-NITROSOMETHYL-AMINO) ACETAMIDE

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Lieselotte K. Templeton, David H. Templeton and Allan Zalkin.

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Received

Abstract: Crystals of 2-(N-nitrosomethylamino) acetamide are monoclinic, space group P2₁/n, with a = 16.681(30), b = 4.774(5), c = 14.318(15) Å and β = 92.95(0.2)°. Each unit cell contains four molecules of the <u>E</u> isomer and four of the <u>Z</u> isomer. The structural model was refined to R = 0.044 for 1184 independent reflections measured with an automatic diffractometer. Hydrogen bonds from amide groups to carbonyl or nitroso oxygen atoms connect the molecules in sheets parallel to (100). Kenyon and Rowley² found 2-(N-nitrosomethylamino) acetamide as the hydrolysis product of a secondary N-nitrosoamine. It crystallized as a mixture of needles and plates. On the basis of nmr spectra they concluded that the needles contained a mixture of the <u>E</u> and <u>Z</u> isomers:

> М 0 И СН₃-N-CH₂-C-NH₂

In this paper we report a crystal structure determination which confirms this result. We found a 50:50 mixture of the isomers with conformations as shown in Fig. 1.

 $CH_3 - N - CH_2 - C - NH_2$

EXPERIMENTAL.

Colorless, needlelike crystals, synthesized by the reaction of sarcosinamide with nitrous acid,² were provided by Professor Kenyon of the University of California, Berkeley. A crystal of dimensions 0.066 x 0.042 x 0.111 mm was glued to the tip of a glass fiber in air with the b axis parallel to the axis of the fiber. Preliminary X-ray diffraction data were obtained from oscillation and Weissenberg photographs taken with copper radiation. Accurate unit cell dimensions were determined from measurement of $\underline{h} \ 0 \ 0, \ 0 \ \underline{k} \ 0,$ 0 0 & reflections using a Picker automatic diffractometer equipped with a full circle goniostat, graphite monochromator and PDP-8I computer. Intensity data were collected with the same instrument. The integrated intensity of each reflection was measured by a θ -20 scan technique, using a scanning rate of 1°/min., from 1° below the 20 angle at which K_{al} was diffracted to 1° above the 20 angle at which K_{a2} was diffracted. Two 10-second background counts with the apparatus stationary were taken 0.5° below and 0.5° above the 20 angle at which the scanning was begun and ended. Three strong reflections (600, 004, 020) were checked periodically (every 100 reflections) for crystal decomposition and/or machine malfunction. The crystal had to be slightly realigned several times during the data taking which lasted 9 days.

From the above three "standard" reflections it was found that there was a 30% decay in the intensities during the experiment. Scale factors were adjusted on the assumption that all reflections decreased at the same rate.

All calculations were made on the CDC 6600. Recorded counts were treated as follows: (recorded counts) x 10 + 4.5 = actual counts. When the background was recorded as zero, it was set equal to 6 (because we do not have a counter for the last digit). The actual counts were converted into structure factors and standard deviations $\sigma(F)$ using the formula given elsewhere,³ except that the additional term in $\sigma^2(I)$ was $(0.06I)^2$.

The absorption coefficient for this compound is $\mu = 9.9 \text{ cm}^{-1}$. No correction for absorption was made, because it was considered to be negligible (at most 7%).

-3-

The hemisphere $\pm \underline{h}$, \underline{k} , $\pm \ell$ was measured. Excluding systematic space group absences, there were 2444 data of which 576 had intensities less than the standard deviations and included 168 reflections measured to be zero. When a reflection was measured more than once, the intensities were averaged and its standard deviation was treated as set forth elsewhere.³ These 2444 reflections represent 1417 unique reflections of which 1184 are greater than one standard deviation.

The two figures were prepared with Johnson's ORTEP program.⁴

The ratios of observed and calculated structure factors for the strongest reflections range from 0.95 to 1.05 and give no indication of any significant extinction effect.

CRYSTAL DATA.

The crystals are monoclinic with unit cell dimensions measured at room temperature (~24°C): a = 16.681 ± 0.030, b = 4.774 ± 0.005, c = 14.318 ± 0.015 Å, β = 92.95 ± 0.2°. There are eight molecules of $C_{3}H_{7}N_{3}O_{2}$ (four of each isomer) in the unit cell. The calculated density ρ = 1.367 g/cc agrees well with the observed density ρ = 1.36 ± 0.02 g/cc measured by flotation in solutions of chloroform and hexane.

The extinction rules (<u>h</u>0l absent if <u>h</u> + l = 2n + 1 and 0<u>k</u>0 absent if <u>k</u> = 2n + 1) are characteristic of space group P2₁/n. All atoms are in general positions.

DETERMINATION OF THE STRUCTURE

The structure was solved from statistics. The phases of normalized structure factors E were calculated with Long's program⁵ which uses Sayre's equation. The 16 possible combinations of signs of four reflections (in addition to 3 origin determining reflections) were used to calculate probable phases for the 165 reflections whose |E| values were ≥ 1.50 . One combination of signs was better than the rest. This solution had a consistency index of 0.80 compared to the next best value of 0.77, and also took the fewest cycles (6) to determine all the signs. The Fourier synthesis of this best E set showed both the <u>E</u> and <u>Z</u> isomers and yielded the coordinates of the 16 non hydrogen atoms (carbon, nitrogen and oxygen) in the asymmetric unit.

With anisotropic thermal parameters (for the 16 atoms) the full matrix least squares refinement reduced $R_1 = \Sigma ||F_0| - |F_c||/\Sigma|F_0|$ to 0.089 for 1184 non zero reflections. The scattering factors of Cromer and Waber⁶ were used for all atoms except hydrogen whose scattering factors are those of Stewart, Davidson, and Simpson.⁷ All 14 hydrogens except for one in the methyl group of the <u>E</u> isomer showed well defined peaks in a ΔF Fourier. When in addition to the 16 non hydrogen atoms with anisotropic temperature factors, three positional parameters and an isotropic thermal temperature factor were included for each of the 14 hydrogens, refinement gave $R_1 = 0.0477$ after 4 cycles. Further refinements were made with a variation of our least squares program (written by Arthur Olson)⁸ which uses the scattering factors of Stewart <u>et al</u>.⁷ for polarized H atoms. The R hardly changed (R = 0.0476), but the hydrogen distances lengthened by about 0.1 Å. Final refinement, using for C, N, and 0 the scattering factors of Doyle and Turner⁹ and anomalous dispersion of Cromer and Liberman¹⁰ brought R₁ down to 0.044 and R₂ = $[\Sigma w (\Delta F)^2 / \Sigma w (F_0)^2]^{1/2}$ to 0.052. No parameter shifted more than 2.7% of its estimated standard deviation in the final refinement.¹¹

RESULTS AND DISCUSSION.

Final values for atomic coordinates and thermal parameters are given in Tables I, II and III. Bond distances and angles are listed in Tables IV and V. Corresponding bond distances in the two isomers (Figure 1) are equal within the experimental accuracy except perhaps the N-N and N-O distances; the latter differ respectively by three and two times the sums of the standard deviation.

The dimensions of the amide groups (corrected for thermal motion) are in excellent agreement with the corresponding bond lengths C-N = 1.338(7) and C-O = 1.258(6) Å reported by Denne and Small¹² for acetamide, and C-N = 1.334(7), 1.333(7) and C-O = 1.255(7), 1.254(7) Å reported by Chieh, Subramanian, and Trotter¹³ for malonamide. For the amide-methylene bond (uncorrected for thermal motion)

- 1

our values C-C = 1.513(4), 1.518(4) Å are almost identical with C-C = 1.503(8), 1.513(8) Å in malonamide.¹³ The C-N bond lengths exhibit the partial double-bond character typical of amides. The bond lengths in the vicinity of the nitroso groups agree within 0.03 Å or better with corresponding bonds in gaseous nitrosodimethylamine as determined by Rademacher, Stølevik and Lüttke¹⁴ by electron diffraction: N-0 = 1.235(2), N-N = 1.344(2), and N-C = 1.461(2) Å. We have failed to find reports of accurate determinations in the solid phase of structures of strictly analogous molecules. Boer and Turley¹⁵ have reviewed the rather discordant results for several nitroso monomers and dimers. In dimethylnitrosamine copper(II) chloride, Klement¹⁶ found N-O = 1.22(2), N-N = 1.29(2), and N-C = 1.46(3) and 1.47(3) Å.

Each amide hydrogen atom is pointed toward an oxygen atom at a reasonable distance for an N-H···O hydrogen bond. These bond lengths are listed in Table IV. These bonds, as shown in Figure 2, connect the amide of the \underline{Z} molecule to nitroso oxygen atoms of each kind of molecule. The amide of the \underline{E} molecule is connected to carbonyl oxygen atoms of each kind of molecule. These bonds connect the molecules in infinite layers parallel to \underline{b} and \underline{c} .

We thank Professor George Kenyon and Mr. George Rowley for providing the crystals for this study.

-7-

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Table I.

Coordinates for Nonhydrogen Atoms.

Atom	x	У	Z
N(1)	.2044(2)	.6925(6)	.3999(2)
C(2)	.2823(2)	.6506(5)	.4120(2)
0(3)	.3257(1)	.7901(4)	.4652(1)
C(4)	.3160(2)	.4141(6)	.3557(2)
N(5)	.3997(1)	. 4585(5)	.3391(2)
C(6)	.4625(3)	.306(1)	-3905(3)
N(7)	.4219(2)	.6529(6)	.2816(2)
0(8)	.3648(1)	.7866(5)	.2456(1)
N(9)	.8394(2)	.4168(6)	.1479(2)
C(10)	.3483(1)	.5837(5)	.2205(2)
0(11)	.3485(1)	.8405(4)	.2149(1)
C(12)	.8573(2)	.4421(6)	.3154(2)
N(13)	.9008(1)	.6173(5)	.3823(1)
C(14)	.9856(2)	.665(1)	.3783(3)
N(15)	.3540(2)	.7544(5)	.4391(2)
D(16)	.8910(1)	.9194(5)	.4903(1)

-10-

Table II.

Anisotropic Thermal Parameters.^a

Atom	B	B22	B ₃₃	^B 12	B ₁₃	^B 23
	1 1					
N(1)	5.3(2)	4.1(1)	4.5(1)	.1(1)	1.0(1)	9(1)
C(2)	5.5(2)	2.2(1)	2.7(1)	2(1)	.6(1)	.1(1)
0(3)	6.8(1)	3.9(1)	3.99(9)	48(9)	.12(8)	-1.26(8)
C(4)	5.2(2)	2.5(1)	4.1(1)	2(1)	.3(1)	3(1)
N(5)	5.0(1)	2.7(1)	4.3(1)	11(9)	.53(9)	4(1)
C(6)	5.7(2)	5.4(2)	7.1(2)	.5(2)	-1.0(2)	9(2)
N(7)	5.8(1)	4.2(1)	5.3(1)	.1(1)	1.1(1)	7(1)
0(8)	7.1(1)	5.4(1)	5.3(1)	.4(1)	.8(1)	.9(1)
N(9)	6.8(1)	2.1(1)	3.3(1)	2(1)	7(1)	.2(1)
C(10)	4.0(1)	2.1(1)	3.5(1)	.02(9)	33(9)	.3(1)
D(11)	7.5(1)	1.87(9)	4.4(1)	.07(8)	58(8)	.31(7)
C(12)	5.8(2)	2.5(1)	3.4(1)	4(1)	6(1)	.0(1)
N(13)	4.5(1)	2.5(1)	2.90(9)	•39(8)	• 34(8)	61(8)
C(14)	4.0(2)	7.7(3)	4.5(2)	.1(2)	.0(1)	5(2)
N(15)	6.7(1)	4.1(1)	3.6(1)	6(1)	5(1)	1(1)
0(16)	7.2(1)	6.6(1)	5.7(1)	.4(1)	.3(1)	-2.1(1)

^aThe temperature factor is $\exp(-\sum_{i}\sum_{j}B_{ij}h_{i}h_{j}b_{i}b_{j}/4)$, where b_{i} is the length of the <u>i</u>th reciprocal cell dimension.

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Table III. Parameters for Hydrogen Atoms.

				and the state of the second					
Atom	x	У	Z.	В					
H(1)	.180(2)	.825(8)	.439(2)	6.5(10)					
H(2)	.171(2)	. 583(8)	.361(2)	5.1(9)					
H(3)	.280(2)	.395(7)	.291(2)	5.1(7)					
H(4)	.312(1)	.253(6)	.395(2)	3.2(6)					
H(5)	.459(2)	.10(1)	.370(3)	9.2(12)					
H(6)	.516(2)	.381(8)	.375(2)	6.0(10)					
H(7)	•459(2)	.326(9)	.462(3)	8.3(11)					
H(8)	.325(2)	.485(7)	.089(2)	4.8(8)					
H(9)	.339(2)	.224(8)	.155(2)	4.6(8)					
H(10)	.795(2)	.397(8)	.335(2)	6.7(9)					
H(11)	.392(2)	.268(7)	.307(2)	4.5(7)					
H(12)	1.010(2)	.723(9)	.441(3)	7.9(10)					
H(13)	.995(3)	.79(2)	.323(4)	15.4(22)					
H(14)	1.010(3)	.48(1)	.362(4)	11.4(17)					

-12-

0 3 3 0 3 7 0 7 3 8 7

-13-

Table IV. Bond distances (Å). Distances after correction for thermal motion by the riding model are given in parentheses.

Z Molecule		<u>E</u> Mole	cule
N(1)-C(2) 1.3	18(4)	N(9)-C(10)	1.312(4)
(1.3	35)		(1.326)
C(2)-O(3) 1.2	30(4)	C(10)-O(11)	1.229(3)
(1.2	52)		(1.252)
C(2)-C(4) 1.5	13(4)	C(10)-C(12)	1.518(4)
C(4)-N(5) 1.4	44(4)	C(12)-N(13)	1.439(4)
N(5)-C(6) 1.4	45(5)	N(13)-C(14)	1.438(5)
(1.4	71)		(1.467)
N(5)-N(7) 1.3	08(3)	N(13)-N(15)	1.328(4)
N(7)-O(8) 1.2	37(4)	N(15)-0(16)	1.223(3)
(1.2	50)		(1.241)
N(1)-H(1) 0.9	6(4)	N(9)-H(8)	0.92(3)
N(1)-H(2) 0.9	3(4)	N(9)-H(9)	0.93(4)
C(4)-H(3) 1.0	8(3)	C(12)-H(10)	1.12(3)
C(4)-H(4) 0.9	5(3)	C(12)-H(11)	1.02(3)
C(6)-H(5) 1.0	4(5)	C(14)-H(12)	1.01(4)
C(6)-H(6) 1.0	0(4)	C(14)-H(13)	1.02(7)
C(6)-H(7) 1.0	4(4)	C(14)-H(14)	0.99(6)
N(1)···O(16) 2.9	48(5)	N(9)0(3)	2.965(4)
N(1)···0(8) 3.0	30(5)	. N(9)···O(11)	2.915(4)

Table	۷.	Bond	Angles.
	•••		

E	Molecule

Z Molecu	le
N(1)-C(2)-O(3)	123.9(3)°
N(1)-C(2)-C(4)	115.8(3)
0(3)-C(2)-C(4)	120.3(3)
C(2)-C(4)-N(5)	111.6(3)
C(4)-N(5)-C(6)	121.6(4)
C(6)-N(5)-N(7)	117.2(4)
C(4)-N(5)-N(7)	121.1(3)
N(5)-N(7)-O(8)	113.0(3)
C(2)-N(1)-O(16)	125.6(2)
C(2)-N(1)-O(8)	109.3(2)
C(2)-N(1)-H(1)	119(2)
C(2)-N(1)-H(2)	123(2)
H(l)-N(l)-H(2)	118(4)
H(5)-C(6)-H(6)	109(4)
H(5)-C(6)-H(7)	111(5)
H(6)-C(6)-H(7)	107(4)

e e e e e e e e e e e e e e e e e e e	
N(9)-C(10)-O(11)	123.7(3)°
N(9)-C(10)-C(12)	116.2(3)
0(11)-C(10)-C(12)	120.2(2)
C(10)-C(12)-N(13)	111.1(2)
C(12)-N(13)-C(14)	121.9(3)
C(14)-N(13)-N(15)	123.8(4)
C(12)-N(13)-N(15)	113.7(3)
N(13)-N(15)-O(16)	113.0(2)
C(10)-N(9)-O(3)	114.4(2)
C(10)-N(9)-O(11)	108.1(2)
C(10)-N(9)-H(8)	121(2)
C(10)-N(9)-H(9)	120(2)
H(8)-N(9)-H(9)	118(3)
H(12)-C(14)-H(13)	118(5)
H(12)-C(14)-H(14)	107(4)
H(13)-C(14)-H(14)	104(7)

-15-

Figure Captions

Figure 1. Perspective drawing of the <u>E</u> and <u>Z</u> isomers. Thermal boundaries are at the 50% probability level. For this drawing the hydrogen atoms were given artificial thermal parameters of B = 0.5.

Figure 2. Projection of the unit cell looking down the b axis. Hydrogens are represented by the small circles. The dotted lines are hydrogen bonds. When the line is broken the bond is to the molecule above or below. The numbers identify the different oxygen atoms.





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OBSTRVED STRUCTURE FACTORS, STANDARD DEVIATIONS, AND DIFFERENCES (X 8.0) FOR 2-(1)-NITROSOMET (YLAMINO) ACETAMIDE. F(0,0,0) = 3983

 $^{\circ}$

A.

FOR AND FCA ARE THE UBSERVED AND CALCULATED STRUCTURE FACTORS. SG = FSTIMATED STANDARD DEVIATION OF FOR. DEL = /FU9/ - /FCA/. * INDICATES ZERD WEIDHTED DATA.

T	ECB	SG	DEL	. L	F03	SG	DEL	L	F08	SG	DEL	L	FOB	SG	DEL	L	F08	SG	DEL
	H . K =	<u></u> .	- ō	1	47	7		-13	29	6	- 1	1	1.K=	1	. 4	-4	939	31	9
2	205	°,	-15.	2	71	3	-7	-12	62	- 6	- E	-9	49	. 11	-10	-3	0	9	-3*
	252	°	-20		1.12	2	à	-11	103	Ň	-2	-8	48	2	6	-2	128	5	6
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14	12	15	- 3 >	-13	204	7	-4	-5	239	9	. 6	-3	32	12	-8	<u> </u>	156	6	-5
1	H,K=	0,	1	-11	154	5	1	- 5	213	7	4	-2	48	. 5	-5	4	257	8	5
1	275	8	-1	- 9	45	2	-2	-4	58	2	1	-1	6.8	3	-3	5	381	12	9
2	437	13	-4	-7	234	9	-4	-3	159	5	1	0	4.9	-4	-3	6	235	8	13
3	693	22	-0	·	349	11	4	-2	321	13	11	1	39	4	- 9	7	23	8	2
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13	49	3	- 2	15	53	3.1	-4	8	116	4	6	-2	54	÷ 3	-1	-12	63		-2
14	14	10	1	, i -	1•K=	· 1,	1	9	24	13	-5	-1	66	્ર3	· -0	-11	79	4	3
I	H,K=	0,	. 2	-14	125	4	2	10	52	3	-1	0	29	31	-84	-10	18	11	-1
0	325	10	- 7	-1.3	- 33	4	-2	11	31	5	-1	1	34	9	-13	-9	13	16	-1≠
1	151	5	7	-12	22	7	-3	12	61	6	-4	2	5	15	-5*	-8	36	5	5
2	143	4	5	-11	114	5	5	13	117	4	-6	1	1,K=	2	, 0	7	157	5	2
3	137	4	-3.	-10	17	13	-2	ł	1.K=	1.	3	-14	54	3	-3	-6	107	.6	2
4	156	5	11	-9	75	4	5	-12	12	18	-7*	-12	42	. 2	-2	-5	50	2	1
5	83	â	2	-8	27	3	-0	-11	43	4	-7	-10	C.	16		= -4	1:30	6	10
6	368	11	-4	- 7	273	12	Ť	-10	14	15	R‡	8	372	11	1	-3	71.	à	-0
7	200			6	7	16	7:			5	-5	- 6	127	: <u>* </u>	-4	-2	152	5	· A
	210	10	 	-0	= 0	2	/.	· - ·	127	5		-0	202	. 7	10	_1	250	, p	12
0	10	12	. .		177	5		- 5	121	0	2		202	1 5	± 4 1	-1	200	2	12
. 9	138	4	2	-4	1(1)		, ,		272	8		-2	200	15	-41	0	02	7	12
10	0	18	-69		539	14	0	5	114	4	- 4	0	285	- 9	-1	1	40		
11	94	3	. 2	- 2	412	15	-8	-5	61	- 3	3	2	650	21	-2	2	117	(11
12	54	3	6	- 1	272	10	-5	-4	152	5	- 5	4	353	11	19	3	285	. 9	14
13	9	16	-4	<u>د</u> 0	32	ъ	8	-3	27	<u>5</u>	-7	6	23	6	-11	4	320	11	12
1	H., K = '	0,	: 3	1	101	3	4	-2	-63	. 3	1	8	12:	- 5	9	. 5	180	7	- 9
1	135	4	- 2	- 2	253	10	5	-1	56	: 3	-4	10	76	: 3	-0	6	17	4	-2
2	75	-4	- 2	· 3	47.3	16	6	0	14	8	13	12	1.47	6	-0	- 7	11	9	-11
3	153	-5	· 0	4	227	7	4	. 1	213	7	15	14	2.5	8	-3	8	. 32	4	0
4	36	3	÷ 3'	5	295	9	5	2	95	3	0	(H , K =	2	, 1	9	185	6	5
5	110	4	3	6	221	7	-5	3	67	3	-0	-14	58	8	5	10	32	. 4	-2
6	148	5	-5	· 7	141	4	1	4	11-	14	1#	-13	50	3	3	11	36	. 7	-6
7	119	4	ō	Ŕ	57	3	-4	5	29	7	Ē,	-12	4	18	-5*	: 12	24	8	-10
я	41	· 4	- 3	à	151	5	· 4	ĥ	53	2	- 1	-11	112	- 4	3	12	71	2	-0
0	205	. 7	ر م	лó	11	14	- o #	. 7	165	~	Å	-10	. A7	-1	ñ		+1 = K =	2	. ²
10	200	· _	_ 1	11	23	17		، د	100	10		-10	107. 18	10		-17	52	2	-5
10	5U 1 7	2	-1		20	C A	-2	. 0	27	10			1.D.	10	0.7 1		22	, ,	_7
11	12	10	¢.⇒	. 12	122	4	-1		1 7 1	2	U V	-8		2	I,	-11	23		
12	27	1	و -	13	1.5	4	2	10	121	4	-4	- /	4 /	د.	· - •	-10	112	4	-4
-	H,K=	0,	4	1 +	33	ц. 1. 1.	-4	11	1.8	16	- 8	-6	268		-1	-9	11	20	44
0	117	- 4	-1		+・く=	1.	2	12	22	9	-11	-5	397	13	-4	-5	- 94	3	2

-18-

-19-

OBSERVED STAUCTURES FACTORS (COMT) FOR 2-(N-MITROSCRETHYLAMIND) ACELAMIDE

L	FOB	SG	DEL	Ĺ	FD3	SG	DEL	Ľ	FOB	SG	DFL	L	FCB	SC	DEL	L	F08	50	DEL
-7	25	7	7	7	123	4	r .	9	62	2	3	-4	811	24	-13	3	55	3	n
-6	117	4	- 3	, 9	31	4	1	10	1.4	8	1	-2	7:2	25	-4	4	110	4	- 2
-5	12	B .	-1	- 11-	291	9	-1	11	62	3	-4	0	Q = B	33	-43	5	10	13	- 3 +
-4	48	7	· 4	13	50	4	-1	12	72	6	-2	2	6	13	-14	* 5	243	8	4
-3	103	4	- 3 .	·	17K#	3,	1	13	53	- 3	9	4	17.6	- 6	-7	7	39	8	7
-2	25	5	2,	-14	5	16	-54	× 1	1,5=	3,	, 3	6	្មា ទ	4	2	9	143	6	3
-1	120	- 4	10	-13	1+	3	-1	-12	31	5	11	Ŗ	221	·	1	9	39	3	1
0	133	5	1	-12	50	2	3	-11	68	4	-2	10	16	- 3	2	10	65	. 3	1
1	140	e.	12	-11	75	4	- 3	-10	34	7.	-4	12	23	6	-6	11	95	3	3
2	125	8	7	-10	5	15	-2	* -9	99	6	- 1	14	5.8	1	-3	12	평	15	*8
3	79	6	4	- 7	115	5	-4	-8	39	5	-4	. 1	H • K =	4,	, 1	. 13	22	Ģ	- 4
- 4	84	3	-3	-8	35	3	3	-7	71	3	4	-14	16	16	-7*	8 J	1,K=	4.	- 3
5	78	4	4	- 7	33	6	-9	-5	48	5.	-10	-13	41	ິ 5	-3	-11	125	4	-4
6.	54	3	-2	-6	115	4	-0	-5	52	3	0	-12	10	12	1 4	=10	Ò	21	-4*
7	112	7.	0	-5	233	9	-13	-4	50	3	2	-11	53	· 3	8	-9	. 19	8	÷ 8
8	62	3	0	-4	157	5	10	-3	89	4	3	-10	49	4	-2	-8	40	3	2
ÿ	9	16	4*	- 3	14	11	6	-2	35	8	-3	-9	52	5	1	-7	13	18	-4*
10	197	ି ଦ	-2	-2	205	6	-14	-1	125	4	2	-8	264	8	-2	-6	29	Ē.	-4
11	1 02	4	5	1	397	13	ิล		14	17	12#	-7	15	6	7	-5	18	21	2*
12	6	15	-14*	- î	147	ι. S	-4	ĩ	8	11	- •	-6	61	2	0	-4	15	11	-3
 	. K -	2		í	435	16	-10	2	214	17	3	-5	37	2	õ	-3	18	ेंद्र	10
· _ 0	1 N	15	2.4	2	~ ~	- 2	_5	2	128	5	~	-4	56	2	-2	-2	28	5	- 4
_ 0	7	15	-12	2	1/2	ر ۱	2		24	~ ~	-4		245	្តែ	. 4	-1	259	Ř	12
-0	04	12	-12*	נ ג	1+2	4	-7	5	27	~	- 4		102	о А	10	-1	104	11	-3
	00	2	- 5	- 4	73	12	16	2	77		, <i>></i> 1	- 2	185	6		1	76	- 2	
-0	00	, ,	2		504	12	1.4	7	126	, ,	2	-1	1.2.2.	10	22	2	02	2	- -
	.83	- 4 .	, <u>)</u>	0	127		1		130	- 4	2	1	2,2	10	- 22	2.	12	14	10+
-/	28		- /	1	112	4	2	.8	22	.2	-2	1	125); /	10	10	107
- 3		14	- / *	. 8	14.5	4	1		51	2	10	2	10.0	4		44. E	150	כ ר	0
-2	11	14	4∓		157	6	- 4	10	28		-10	د	228	. 8		2	105		د
-1	- 29	4	-2	10	22	3	->	11		12	-4	4	500	12	17	5	185	20	-1
. Q	19	6	6	11	41	.4	-3	1	H, K≓	· 31	4	2	152		8	(-05	10	7
į	13	13	12#	12	30	3	1	-9	-16	19	. 0*	6	130	. 4	10	8	13	17	-3≭
2	25	- 4-	-7	13	53	3	-0	-8	32	8.	-11	1		. 5	-10	. 9	64	4	2
3	177	7	1	14	74	3	4	-7	100	3	-6	8	31	4	2	10	93	3	-6
. 4	12	15	2*	7	1 ,K=	<u>_</u> 3,	2	-5	132	4	3	9	91	4	-2	11	30	2	13
.5	200	7	4	-13	55	.4	-5	- 5	43	3	1	10	37	4	-3		1,K=	4	, 4
6	99	3	1	-12	45	2	5	-4	47	2	5	11	8,6	3	· 0	-9	70	3	4
7	0	24	7≠	-11	11	15	8	× -3	36	- 7	7	12	19	14	-5	-7	118	4	-2
8	53	3.	4	-1.0	44	3	-4	-2	26	6	-4	13	39	4	-2	-6	32	4	2
9	63	7,	6.	-9	32	3	-2	-1	103	4	-3	14	52	2	3	-5	111	4	1
H	,K=	2	, 5	- 8	140	. 4		0	35	10	- 4	-	4;K=	. 41	2	-4	31	<u> </u>	12
-2	78	- 4	- 3	- 7	55	5	2	1	10	16	-8*	-13	85	4	-3	-3	64	3	- 5
-1	93	6	- 2	-5	175	- 6	6	2	87	3	2	-12	35	4	-0	-2	70	- 4	-3
0	100	4	- 2	- 5	72	5	1	3	120	4	- 1	-11	C	18	-16*	* -1	0	30	-12#
1,	114	6	0	-4	373	12	7	4	16	19	12#	-10	80	5	3	0	19	5	7.
H	,K=	3	0	- 3	234	10	я	5	38	.7	2	-9	50	- 3	4	· 1	53	4	0 ·
-15	21	7	-6	-2	133	6	7	6	176	6	-1	-8	110	4	-1	2	22	14	4
-13	62	3	-2	-1	50	2	2	7	22	5	6	-7	90	3	6	3	0	15	-12*
-11	62	3	2	0	71	2	-1	8	. 90	- 4	5	-6	. 6.6	3	0.	4	22	- 5	8
-9	45	3	-5	1	31	3	3	1	H, K=	3.	5	-5	22	3	6	5	.89	3	-1
-7	34	-3	3	2	30	4	1	0	0	14	-3*	-4	329	10	8	6	65	3	- 2
<u>c</u> ,	179	6	-4		19	4.	2	. ĭ	1.K=	4.		-3	99	3	-1	7	34	7	-1
- 3	171	Ä	- 2	1	214	7		-14	13	16	'``. `	-2	17	5	- A	, д.	28	Ŕ	-8
-1	189	7	-14		2.3	7	7	-17	10	Ĩ	Ĺ.	-1	122	- 2	ค		1.K=	Š.	, Õ
1	76	2			1.2.9	· _	-2	-10	227	Ŕ	- 1	<u> </u>	an	· 🖌	- -7	-12	79	Ĺ,	_ 1
2	420	ר ז∠	- 20	7	147	20		-10 1-10	シュア	ີ ພ			2.2	. 	12	-11-	10	20	_10±
ר. ב	104	2 Oj	- 50		20	۵.0 ۲	-21		207		_)	. J	200	ر د ن		~11	157	۲ م ۲	-10-
	1.54	Ø	0	5	31	2	-1	-0	241	TO.	- L	6	29.	2	-1	-9.	100		r

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DBSERVED STRUCTURES FACTORS (CONT) FOR 2-(N-NITROSDAETHYLAHING) ACETAMIDE

L	FOR	SG	DEL	Ĺ	FJB	SG	DEL	L	F08	SĠ	DEL	- L	F08	SG	DEL	L	FOB	SG	DEL
-7	161	5.	- 3	2	55	3	-2	-10	32	3	2	1	239	- 7	2	-5	68	3	-1
-5	19	3	6	3	123	4	-0	- 8	130	4	2	2	89	் 3	. 2	3	346	11	-7
-3	260	8	-19	· 4	133	4	1	- ó	13	14	- 7≑	3	40	4	-11	-1	183	6	-2
-1	830	25	-43	5	52	3	9	-4	126	4	-1	- 4	140	4	3	1	41	2	2
1	225	7	17	6	177	6	8	-2	32	2	-1	5	105	4	-0	3	338	10	-17
3	207	6	- 7	7	25	3	1	0	580	18	17	6	36	5	-0	5	33	2	-0
5	46	7.	- 7	8	28	3	2	2	107	3	.2	7	4	14	-13*	7	60	2	1
. 7	54	3	-2	9	16	, 6	. 7	4	54	2	1	8	2.0	15	-1	9	40	3	-4
9	236	7	6	10	30	3	2	6	31	2	0	9	45	. 5	- 3	11	173	5	1
11	25	5	-6	11	11	13	6*	: 8	. 66	3	-3	10	41	<u> </u>	-4	13	12	20.	6∓ ,
13	58	3	0	12	24	11	-2	10	214	1	9.	11	41	U V	U	1 7	1,K=	- (•	
ا م	1,K=	2 :		13	43	2	-2	12	0	10	~147	12	- 7 Z	. 4		-13	101	2	-1
-14	34	5	3		1, K=	21	· 3	. 14	0	19	÷د –		1,K= 20	17	, <u> </u>	-12	5 5	יכ 1 ב י	
-13	62	- 14	- 4 · · 7	-11	13	20	2	_ 1 /	⊓ •∿≕. ⊃⊃	0. 1.1	- 1	-10	20	11	-12	-10	50		-22+
-12	20	יכ. מ	- 2	-10	2.2	21	-6 =	-17	- 25	11	-1	-10	23	4	- 15	Q	84	- 2	5
-11	29	2). 2		-9	 ສູລ	21	-0-	-12	13	12			23	- 2	1	-8	27	4	-5
-10	101	2	- 1	- 0	275	-	-0	-11	55	4	1	-7	12	20	1 4.#	7	27	6	-6
-9	101	2	- 3	- 4	121	4	4	-10	49	. त	-2	-5	29	- g	1	-4	178	6	-4
-0	130	4	-5	-5	101	14	-15*	: -9	44	q	1	-5	12	14	-4*	-5	197	6	-10
-6	4	16	-6*	-4	55	2	-3	-8	321	10	-1	-4	9	19	7≠	-4	24	2	0
-5	141	5	7	-3	35	5	-4	-7	21	3	12	-3	118	4	1	-3	142	4	-18
-4	127	4	-5	-2	65	3	2	-6	179	6	-1	-2	- 40	5	-1	-2	240	7	-4
-3	7.3	3	-4	-1	33	2	-1	-5	136	4	-2	-1	88	3	2	-1	159	5	. 2
-2	80	- 3	- 8	ō	30	6	Ō	-4	296	9	-2	0	53	2	: 2	0	272	8	-11
-1	220	7	2	1	102	3	-4	-3	129	4	-11	1	154	5	. 4	1	38	2	-4
0	192	6	- 8	2	104	4	1	-2	- 11	6	9	2	104	3	-3	2	57	2	-1
1	242	7	5	3	75	3	0	-1	100	3	3	3	15	19	4#	3	148	5	-5
- 2	32	2	- 1	4	59	2	1	0	408	12	- 8	4	87	3	2	- 4	21	6	-3
3	150	5	1	5	91	3	3.	1	11	6	6	5	9	20	9*	5	5	11	-5*
- 4	110	3	- 3	6	72	3	-0	2	. 86	3	5	6	142	5	-2	6	93	- 3	-3
5	100	3	· 3	- 7	75	3	-6	3	111	4	-2	7	40	6	2	7	47	2	0
6	287	9	2	8	- 71	4	-2	4	193	6	8	8	19	5	4	. 8	58	4	-0 :
7	167	5	-3	9	18	6	9	5	63	3	-3	. 9	-35	4	-+	9	103	4	-2
8	84	3_	4	10	47	. 5	-9	6	129	4	4	10	. 05	3	-1	10	16	· 6	8
- 9	76	• 3	1	11	່ງ	14	-4¥		68	2	2	+	1, K=		, 4	11	25	1 2	0
10	64	. 3	د :		1, < =	21	, 4	8	110	4	10+	- 8	12	19	-1+	12	52	13	2*
11	13	11	.8	- 3	35	2	-0	. 10	. U	14	-10#		- 21	2	-2	13.	- <u>7</u> C	7	-1
12	70	2	-4	- 4	25	22	-11*	· 10	20	2 4	-1	-0	. C.D. 50	2	1 2	-12	195-	7	-8
15	10	7		-5	2.5	15	-23#	: 12		21		-4	20	5	יר ו	-11	46	5	-7
14	1.K=	Ē.		-4	13	4	17	13	24	11	-4	-3	30	Â	-1.	-10	11	20	-2#
-13	34	7	2	- 3	125	4	-3	 I	1.K=	6.	2	-2	0.	21	-8*	_q	0	20	-1+
-12	10	13	- 5≠	-2	71	3	ñ	-13	9	.20	· · · · · · · · · · · · · · · · · · ·	-1	·· õ	21	-3*	-9	38	3	-0
-11	21	-5	2	-1	127	4	-11	-12	29	3	5	Ō	18	. 6	-3	-7	99	3	Ó
-10	30	8	5	ō	30	3	-0	-11	74	3	-0	1	82	3	-9	-6	0	19	-4‡
-9	173	5	3	1	21	13	2	-10	0	15	-12*	2	1.21	4	2	-5	0	12	-2 =
-8	20	13	- 6	2	17	6	10	-9	6	20	-3*	3	76	3.	-0	-4	129	4	-2•
-7	46	4	- 5	3	16	13	-7	-8	24	10	5	4	8	21	-2 *	-3	.49	4	0
-6	57	3	-2	4	13	21	-4*	-7	22	5	-3	.5	154	· 5	-2	-2	57	3	-1
-5	38	2	-3	5	30	4	2	-6	19	11	6	. 6	12	20	9\$	-1	41	3	5
-4	5 8	2	-2	· 5	32	4	-4	5	94	3	-1	. 7	19	20	2*	0	26	3	-7
-3	123	. 4	- 5	7	55	- 4	-4	-4	16	13	9	. F	1, K =	7.	0 _.	1	86	3	-2
-2	79	3	-4	B	. 8	19.	3*	- 3	115	4	12	-13	10	13	-1 *	2	163	5	. 2
-1	86	3	-5	÷	1,K=:	- 61	с)	-2	191	- 5	-1	-11	76	- 3	-7	3	124	4	-5
0	56	3	-1	-14	34	1	-11	_ - t	232	7	-4	-9	144	<u> </u>	-3	4	99	3	2
1	60	· 3	5	-12	135	4	- 1.	0	174	5	-8	7.	.40	4	- 7	5	- 68	3	-3

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OBSERVED STRUCTURES FACTORS (CONT) FOR 2-(N-NITEOSUGETHYLAMINO) ACETAMIDE

1	FOB	SG D	FL	L	FOB	SG	DEL	L	FOB	SG	DEL	Ĺ	FOR	SG	DEL	Ľ	F03	SG	DEL
6	38	5	-2	10	93	3	-0	-8	51	5	ō	-3	54	5	0	6	16	18	-14
7	0	19	-2*	12	51	2	-1	-7	10	13	-1*	-2	163	2	2	7	28	6	3
. 8	15	10 -	10	-	•K=	8	· ī	-6	21	8	-0	-1	129	7	-7	8	89	4	3
9	0	20	-5*	-13	44	3	2	- 5	91	5	1	0	123	.4	-1	9	19	4	15
10	41	3	2	-12	0	20	-13*	-4	8	13	-2*	1	151	6	3	ł	1.K=	9,	4
11	49	3	ō	-11	20	5	2	-3	95	4	4	2	135	6	-1	-5	35	4	-4
12	38	6	2	-10	21	16	-4	-2	91	3	1	3	139	. 4	2	-4	64	11	- 3
	н.к=	7.	3	-9	18	7	-5	-1	75	3	-1	4	40	2	1	-3	108	6	-5
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-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6	$\begin{array}{c} 38\\ 48\\ 30\\ 30\\ 25\\ 30\\ 25\\ 31\\ 25\\ 31\\ 64\\ 54\\ 117\\ 8K=\\ 109\\ \end{array}$	5 5 7 4 20 21 11 8 13 5 4 4 8 4 8 4 4 8 4 4 8 4 4 4 4 4 4 4 4	$ \begin{array}{c} 1 \\ 0 \\ -4 \\ 4 \\ 2 \\ 4 \\ 0 \\ 111 \\ -2 \\ 4 \\ -3 \\ -3 \\ +3 \\ 12 \\ +3 \\ 0 \\ -2 \\ 2 \\ -9 \\ 0 \\ 2 \\ \end{array} $	$ \begin{array}{c} 11 \\ 12 \\ -12 \\ -11 \\ -10 \\ -9 \\ -3 \\ -7 \\ -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ \end{array} $	54=0 97 97 97 97 97 97 97 97 97 97 97 97 97	28 16117444464763533053 1053	$\begin{array}{c} 3 \\ 2 \\ -10 \\ 5 \\ 5 \\ -1 \\ 8 \\ -3 \\ -9 \\ -2 \\ 4 \\ 6 \\ 3 \\ -4 \\ 7 \\ 1 \\ 2 \end{array}$	$ \begin{array}{r} 3 \\ -13 \\ 13 \\ 13 \\ $	10 35 21= 85 87 17 31 15 4 93 195 295 195 25 25 25 25 25 25 25 25 25 25 25 25 25	20 15 21 55 58 21 18 13 52 57 59	-19 = -19 = -6 = -6 = -6 = -6 = -7 = -7 = -7 = -7	-1 0 1 2 3 4 5 6 7 8 9 10 11 -9 -8 -7 -6 -5	23 97 21 133 50 128 11 0 15 424 1,K= 20 41 8 41 47	9 1 3 6 5 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 5 4 3 4 6 5 4 3 4 6 5 4 3 4 6 5 4 3 4 6 5 4 3 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 4 6 5 4 7 7 7 7 7 7 7 7 7 7 7 7 7	$ \begin{array}{c} -3 \\ -3 \\ -3 \\ -3 \\ -3 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -5 \\ -2 \\ -5 \\ -2 \\ -6 \\ -2 \\ -6 \\ -2 \\ 0 \\ 0 \\ 0 \\ \end{array} $	$ \begin{array}{c} 12 \\ -12 \\ -12 \\ -11 \\ -19 \\ -8 \\ -7 \\ -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ \end{array} $	14 1, K = 100 344 266 855 127 143 19 126 92 204 87	$\begin{array}{c} 15\\ 5\\ 2\\ 4\\ 6\\ 7\\ 5\\ 16\\ 4\\ 3\\ 4\\ 4\\ 3\\ 3\\ 4\\ 4\\ 9\\ 4\end{array}$	$ \begin{array}{r} -6 \\ -9 \\ -9 \\ -6 \\ -14 \\ -0 \\ C \\ 5 \\ 1 \\ 4 \\ 6 \\ 9 \\ -0 \\ \end{array} $
9 10 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 -12 -10	$\begin{array}{c} 38\\ 48\\ 30\\ 30\\ 25\\ 30\\ 25\\ 31\\ 25\\ 31\\ 64\\ 54\\ 117\\ 8\\ 54\\ 117\\ 8\\ 54\\ 54\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 66\\ 6$	5 5 7 4 20 21 11 8 13 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 3 5 4 4 4 8 5 4 4 4 8 5 4 4 4 8 5 4 4 4 8 5 4 4 4 8 4 4 8 4 4 4 8 4 4 4 8 4 4 4 8 4 4 4 8 7 7 1 1 1 1 1 3 5 4 4 4 4 8 4 4 8 7 4 4 4 8 7 4 4 8 7 7 1 1 1 1 1 1 1 1	$ \begin{array}{c} 1 \\ 0 \\ -4 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ -2 \\ -3 \\ -3 \\ -3 \\ 1 \\ 2 \\ -9 \\ 0 \\ 2 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0$	$ \begin{array}{c} 11 \\ 12 \\ -12 \\ -11 \\ -10 \\ -9 \\ -3 \\ -7 \\ -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ \end{array} $	54=097 97937 9373323 130355493 4377 107 90	28 1611744464763533053305315	3 $-10 \neq =$ $5 \neq$ -1 3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -2 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -2 -4 -3 -4 -3 -4 -3 -4 -3 -2 -4 -4 -3 -4	-3456 -1319-75 -1357911 -13	$\begin{array}{c} 10\\ 0\\ 3\\ 2\\ 1\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 1\\ 9\\ 3\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 6\\ 1\\ 6\\ 1\\ 1\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	20 15 21 55 58 21 18 13 52 57 59 14	-19 = -18 = -16 -6 = -66 = -66 -2 = -7 -2 = -3 -1 = -18 = -16 1 = -16	-1 0 1 2 3 4 5 6 7 8 9 10 11 -9 -8 -7 -5 -4	23 97 21 330 50 128 10 154 24 1,K= 20 41 47 48	9 1 3 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 7 7 7 7 7 7 7 7 7 7 7 7	$ \begin{array}{c} -3 \\ -3 \\ -3 \\ -3 \\ -3 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -5 \\ -2 \\ -5 \\ -2 \\ -6 \\ -2 \\ -6 \\ -2 \\ 0 \\ 0 \\ 2 \\ \end{array} $	$ \begin{array}{c} 12 \\ -12 \\ -12 \\ -11 \\ -19 \\ -8 \\ -7 \\ -6 \\ -5 \\ -4 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ \end{array} $	14 1, K = 8 200 394 266 855 127 143 196 204 115	$\begin{array}{c} 15\\ 5\\ 2\\ 4\\ 6\\ 7\\ 5\\ 16\\ 4\\ 3\\ 4\\ 4\\ 3\\ 3\\ 4\\ 4\\ 0\\ 4\\ 4\end{array}$	$ \begin{array}{r} -6 \\ -9 \\ -6 \\ -14 \\ -6 \\ -14 \\ -6 \\ 5 \\ 1 \\ 4 \\ 6 \\ 9 \\ -0 \\ 1 \\ \end{array} $
	$\begin{array}{c} 38\\ 48\\ 30\\ 30\\ 25\\ 30\\ 25\\ 30\\ 25\\ 31\\ 25\\ 31\\ 64\\ 51\\ 7\\ 8\\ 54\\ 10\\ 66\\ 103\\ \end{array}$	5 5 7 4 20 21 11 8 35 4 4 4 8 4 35 4 4 4 8 4 35 4 4 4 8 4 35 4 4 4 4 8 4 35 4 4 4 4 8 4 4 8 4 4 4 8 4 4 4 4 4 8 4 4 4 4 4 4 4 4	$ \begin{array}{c} 1 \\ 0 \\ -4 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ -3 \\ -3 \\ -3 \\ -3 \\ -3 \\ -2 \\ -9 \\ 0 \\ 2 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0$	$ \begin{array}{c} 11 \\ 12 \\ -11 \\ -12 \\ -11 \\ -10 \\ -9 \\ -3 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ \end{array} $	54=097 97937233035493 13035493 13035493 13776024	2 8 6 1 1 7 4 4 4 6 4 7 6 3 5 3 3 0 5 3 5 3 1 0 5 3 5 3 1 0 5 3 5 3 3 0 5 3 5 3 5 3 1 0 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5	3 $-10 \neq 5$ 5 -1 $-10 \neq 5$ $-10 \neq 5$ -10	-3456 -131-97-53-11 -1357911 -132	$\begin{array}{c} 10\\ 0\\ 3\\ 2\\ 1\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 1\\ 9\\ 3\\ 2\\ 9\\ 5\\ 8\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 6\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 6\\ 7\\ 2\\ 9\\ 5\\ 8\\ 1\\ 6\\ 1\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	20 15 21 55 58 21 18 13 52 57 59 14 3	-19 = -18 = -16 -6 = -60 -2 = -7 -2 = -3 -18 = -1 -18 = -3 -18 = -1 -18 = -3	-1 0 1 2 3 4 5 6 7 8 9 10 11 -9 -7 -5 -4 -3	23 97 21 330 50 128 10 15 424 1,K= 20 41 47 48 24	9 1 3 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 3 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 4 6 6 4 7 7 7 7 7 7 7 7 7 7 7 7 7	$ \begin{array}{c} -3 \\ -3 \\ -3 \\ -3 \\ -3 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -5 \\ -2 \\ -6 \\ -6 \\ -6 \\ -2 \\ -6 \\ $	12 + -121197543111111	14 1, K = 1 200 100 194 26 85 127 143 192 204 87 115 31	$\begin{array}{c} 15\\ 5\\ 2\\ 4\\ 6\\ 7\\ 5\\ 6\\ 4\\ 3\\ 4\\ 4\\ 3\\ 3\\ 4\\ 4\\ 0\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\$	$ \begin{array}{r} 6 \\ 6 \\ $
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 -12 -10 -8 -5	$\begin{array}{c} 38\\ 48\\ 30\\ 63\\ 25\\ 30\\ 25\\ 30\\ 25\\ 31\\ 134\\ 54\\ 117\\ 84\\ 85\\ 66\\ 103\\ 43\\ \end{array}$	5 5 7 4 20 21 11 8 35 4 4 4 8 4 3 4 3 4 3 5 4 4 4 8 4 3 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 3 5 4 4 4 8 4 3 3 5 4 4 4 8 4 3 3 5 4 4 4 8 4 3 3 5 4 4 4 8 4 3 3 5 4 4 4 8 4 3 3 3 5 4 4 4 8 4 3 3 3 5 4 4 4 8 7 3 3 3 3 3 3 3 3	$ \begin{array}{c} 1 \\ 0 \\ -4 \\ 4 \\ 2 \\ 4 \\ 0 \\ 11 \\ -2 \\ +3 \\ -3 \\ +3 \\ 12 \\ + 0 \\ -2 \\ 2 \\ -9 \\ 0 \\ 2 \\ -0 \\ -2 \\ 2 \\ -2 \\ 2 \\ -0 \\ -2 \\ 2 \\ -2 \\ 2 \\ -0 \\ -2 \\ 2 \\ -2 \\ -$	$ \begin{array}{c} 11 \\ 12 \\ -11 \\ -12 \\ -11 \\ -10 \\ -9 \\ -7 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ \end{array} $	54 54 54 54 54 54 54 54 54 54	28 16 17 4 4 4 6 4 7 6 3 5 3 3 0 5 3 5 3 3 15 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 3 \\ 2 \\ -10 \\ 5 \\ 5 \\ -1 \\ 8 \\ -3 \\ -9 \\ -2 \\ 4 \\ 6 \\ 3 \\ -4 \\ 7 \\ 1 \\ 2 \\ -4 \\ 3 \\ 3 \end{array}$	-3456 -131-97-53-11 -1357911 -1357911 -132-11	$\begin{array}{c} 10\\ 0\\ 3\\ 2\\ 4\\ 8\\ 6\\ 8\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 7\\ 3\\ 1\\ 9\\ 3\\ 1\\ 9\\ 3\\ 1\\ 9\\ 3\\ 2\\ 9\\ 5\\ 2\\ 8\\ 4\\ 8\\ 1\\ 6\\ 8\\ 1\\ 1\\ 6\\ 8\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	20 15 51 55 58 21 18 13 52 57 59 14 33	$ \begin{array}{c} -8 \\ + \\ -19 \\ + \\ -6 \\ -6 \\ -6 \\ -7 \\ -7 \\ -3 \\ -1 \\ -1 \\ -3 \\ 1 \\ -3 \\ 1 \end{array} $	-1 0 1 2 3 4 5 6 7 8 9 10 11 -9 -8 -7 -5 -4 -2	23 97 21 133 50 128 11 15 44 24 1, K= 20 41 47 48 24 69	9 14 3 6 4 3 4 16 18 17 4 11 9 10 4 18 5 6 4 8 2	$ \begin{array}{c} -3 \\ -3 \\ -1 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -5 \\ -2 \\ -0 \\ -5 \\ -2 \\ -0 \\ -2 \\ -2 \\ -0 \\ -2 \\ -2 \\ -0 \\ -2 $	12 + -121197543111111	14 1, K = 1 200 194 26 85 127 143 19 126 87 115 31 39	150,53467564344334494444 164344334494444	-6* 1 17 -9* 2 -6 3 -14 4* -0 C 5 5 1 1 4 6 9 -0 1 -8 -1
	$\begin{array}{c} 38\\ 48\\ 30\\ 63\\ 25\\ 30\\ 25\\ 30\\ 25\\ 31\\ 64\\ 517\\ 8\\ 54\\ 10\\ 66\\ 103\\ 410\\ \end{array}$	5 5 7 4 20 21 13 5 4 4 4 8 4 3 4 4 4 8 4 3 4 4 4 8 4 3 4 4 3 5 4 4 4 4 8 4 3 5 4 4 4 4 8 4 3 5 4 4 4 4 8 4 3 5 4 4 4 4 8 4 3 5 4 4 4 4 8 4 3 5 4 4 4 8 4 3 5 4 4 4 8 4 3 4 3 5 4 4 4 8 4 3 4 3 5 4 4 4 8 7 3 5 4 4 4 8 7 3 5 4 4 4 8 7 3 7 7 7 7 7 7 7 7	$\begin{array}{c} 1 \\ 0 \\ -4 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ -3 \\ -3 \\ -3 \\ -3 \\ -2 \\ 2 \\ -9 \\ 0 \\ 2 \\ -0 \\ -2 \\ 2 \\ 2 \\ 1 \end{array}$	$\begin{array}{c} 11\\ 12\\ -12\\ -11\\ -10\\ -9\\ -7\\ -5\\ -4\\ -3\\ -2\\ -1\\ 0\\ 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\end{array}$	54=0978723035493677604 1, 9787230354936776044 2377604438	286117444647635330535330 10535333	$\begin{array}{c} 3 \\ 2 \\ -10 \\ 5 \\ 5 \\ -1 \\ 8 \\ -3 \\ -9 \\ -2 \\ 4 \\ 6 \\ 3 \\ -4 \\ 7 \\ 1 \\ 2 \\ -4 \\ 3 \\ -1 \\ 8 \\ -9 \\ -2 \\ 4 \\ 3 \\ -1 \\ -4 \\ 3 \\ -1 \end{array}$	-3456 -131-97-53-11 -1357911 -1357911 -132-110	$\begin{array}{c} 10\\ 0\\ 3\\ 2\\ 1\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 8\\ 6\\ 7\\ 3\\ 1\\ 5\\ 1\\ 6\\ 7\\ 3\\ 1\\ 9\\ 7\\ 3\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 1\\ 9\\ 7\\ 2\\ 9\\ 5\\ 1\\ 6\\ 6\\ 7\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	20 15 21 55 58 28 18 13 52 57 59 14 33 15 15 15 16 16 17 17 17 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19	$ \begin{array}{c} -8 \\ + \\ -19 \\ -6 \\ -6 \\ -6 \\ -7 \\ -7 \\ -7 \\ -11 \\ + \\ -3 \\ 1 \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ -3 \\ + \\ -3 \\ + \\ -3 \\ -3 \\ + \\ + \\ -3 \\ + \\ + \\ -3 \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ +$	-1 0 1 2 3 4 5 6 7 8 9 10 11 -9 -8 -7 -5 -4 -2 -1	23 97 21 330 50 128 10 15 424 1, K= 20 41 47 48 41 47 48 24 59 130	9 1 3 6 4 3 4 6 4 3 4 1 1 9 10 4 18 5 6 4 8 2 12 12 12 12 12 12 12 12 12	$ \begin{array}{c} -3 \\ -3 \\ -1 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -0 \\ -5 \\ -2 \\ -0 \\ -6 \\ -2 $	12 + -121198765421101 - 234 - 56743101 - 234 - 567278 -	14 1, K = 1 200 194 126 126 126 126 126 126 204 115 39 84	150,534675643443344944444 1643443344944444	-6* 1 17 -9* 2 -6 3 -14 4* -0 C 5 5 1 1 4 6 9 -0 1 -8 -1 -2
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$ \begin{array}{c} 6 \\ 7 \\ 8 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \end{array} $	22 63 112 8 16 1,K= 12 26 53 42 26 92	3 4 3 4 17 16 10, 15 3 8 3 7 3	-6 2 -2 $-9 \div$ $-9 \div$ $-9 \div$ -1 0 -0	-37-5-43-2-1012345	5 33 39 52 74 149 208 57 30 53 55 22	15 3 3 5 4 5 9 7 3 5 6 4 3 3 5 6 4 3 3	-1* 0 1 -2 -0 -4 -4 -2 -6 2 -2	-2 -1 0 1 2 3 4 5 6 7 8 9 10	43 4 75 41 29 52 95 75 75 75 75 75 75 75 75 75 75 75 75 75	6 16 2 4 5 3 4 5 5 4 18 3 12,	3 -5* -4 3 -9 2 4 0 -4 -2 -7* -3 2	9 H -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1	88 •K= 56 44 12 45 114 61 50 11 75 73 16	6 13 18 3 4 8 2 6 3 4 16 3 4 9	$ \begin{array}{c} 10 \\ 1 \\ -1* \\ 3 \\ -3 \\ 11 \\ 5 \\ 2 \\ -1 \\ 1 \\ 2* \\ -6 \\ 4 \\ -4 \end{array} $	2 4 6 8 -9 -8 -7 -6 -5 -4 -3 -2 -1	135 159 50 50 1, K= 25 38 59 9 67 64 47 73	5 5 6 4 14 8 4 6 12 8 3 3 4	-3 9 -0 1 5 -4 -4 +4 + -3 + -0 0 6 -4
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$ \begin{array}{c} 6 \\ 7 \\ 8 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ -11 \\ -2 \\ -1 \\ -2 \\ -1 \\ -2 \\ -1 \\ -2 \\ -1 \\ -2 \\ -2 \\ -1 \\ -2 \\ -2 \\ -1 \\ -2 \\ -2 \\ -1 \\ -2 \\ -1 \\ -2 \\ -2 \\ -2 \\ -1 \\ -2 \\ -2 \\$	22 63 112 8 16 1,K= 26 53 26 26 26 26 26 26 26 26 26 26 26 26 26	3434760, 1538373481,64	-625-22 = -22 = -23 = -475 = -4100 = -33 = -308 = -3000 = -3000 = -3000 = -3000 = -3000 = -	-8 -7 -5 -3 -2 -1 0 1 2 3 4 5 6 7 8 9	83 39 52 74 203 57 203 55 233 55 233 400 55 233 400 55 233 55 55 233 55 55 55 55 55 55 55 55 55	15335459735643367551	-1* 0 1 -2 -4 -4 -2 -4 -2 12 -3 -3	-2 -1 0 1 2 3 4 5 6 7 8 9 0 -3 7 6 -3 7 6 -3 -76 -5	754 751 116 292 795 754 4 52 795 4 4 5 7 5 5 7 5 5 7 5 5 7 5 4 6 5 7 5 1 6 5 7 5 7 5 7 5 5 7 5 5 7 5 5 7 5 7 5 7	6 16 2 4 5 3 4 5 5 4 8 3 12 4 12 3 4	3 + - 	9 H -10 -9 -7 -5 -4 -2 -1 1 2 3 4 5 6	88 K = 56 44 12 45 114 61 75 73 16 138 62 14 76	63 183482634634996387	$ \begin{array}{c} 10 \\ 1 \\ -1 \\ 3 \\ -3 \\ 11 \\ 5 \\ 2 \\ -1 \\ 1 \\ 2 \\ -6 \\ 4 \\ -4 \\ 11 \\ 0 \\ -5 \\ 1 \\ 1 \end{array} $	2 4 6 8 1 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4	1355 159 50=58 389997473866 50997473866 5033	055644984628333434468	$ \begin{array}{r} -3 \\ 9 \\ -0 \\ 0 \\ 1 \\ 5 \\ -4 \\ -4 \\ +4 \\ -3 \\ -0 \\ 0 \\ 6 \\ -4 \\ -4 \\ -6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ -0 \\ -4 \\ +6 \\ +6 \\ +6 \\ +6 \\ +6 \\ +6 \\ +6 \\ +$
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12