

PDB File - Atom Record Format*

COLUMNS	DATA	TYPE	FIELD	DEFINITION
1 - 6	Record name		"ATOM "	
7 - 11	Integer		serial	Atom serial number.
13 - 16	Atom		name	Atom name.
17	Character		altLoc	Alternate location indicator.
18 - 20	Residue name		resName	Residue name.
22	Character		chainID	Chain identifier.
23 - 26	Integer		resSeq	Residue sequence number.
27	AChar		iCode	Code for insertion of residues.
31 - 38	Real(8.3)		x	Orthogonal coordinates for X in Angstroms.
39 - 46	Real(8.3)		y	Orthogonal coordinates for Y in Angstroms.
47 - 54	Real(8.3)		z	Orthogonal coordinates for Z in Angstroms.
55 - 60	Real(6.2)		occupancy	Occupancy.
61 - 66	Real(6.2)		tempFactor	Temperature factor.
77 - 78	LString(2)		element	Element symbol, right-justified.
79 - 80	LString(2)		charge	Charge on the atom.

	1	2	3	4	5	6	7	8			
1234567890123456789012345678901234567890123456789012345678901234567890	32	N	AARG	A	-3	11.281	86.699	94.383	0.50	35.88	N
ATOM	33	N	BARG	A	-3	11.296	86.721	94.521	0.50	35.60	N
ATOM	34	CA	AARG	A	-3	12.353	85.696	94.456	0.50	36.67	C
ATOM	35	CA	BARG	A	-3	12.333	85.862	95.041	0.50	36.42	C
ATOM	36	C	AARG	A	-3	13.559	86.257	95.222	0.50	37.37	C
ATOM	37	C	BARG	A	-3	12.759	86.530	96.365	0.50	36.39	C
ATOM	38	O	AARG	A	-3	13.753	87.471	95.270	0.50	37.74	O
ATOM	39	O	BARG	A	-3	12.924	87.757	96.420	0.50	37.26	O
ATOM	40	CB	AARG	A	-3	12.774	85.306	93.039	0.50	37.25	C
ATOM	41	CB	BARG	A	-3	13.428	85.746	93.980	0.50	36.60	C
ATOM	42	CG	AARG	A	-3	11.754	84.432	92.321	0.50	38.44	C
ATOM	43	CG	BARG	A	-3	12.866	85.172	92.651	0.50	37.31	C
ATOM	44	CD	AARG	A	-3	11.698	84.678	90.815	0.50	38.51	C
ATOM	45	CD	BARG	A	-3	13.374	85.886	91.406	0.50	37.66	C
ATOM	46	NE	AARG	A	-3	12.984	84.447	90.163	0.50	39.94	N
ATOM	47	NE	BARG	A	-3	12.644	85.487	90.195	0.50	38.24	N
ATOM	48	CZ	AARG	A	-3	13.202	84.534	88.850	0.50	40.03	C
ATOM	49	CZ	BARG	A	-3	13.114	85.582	88.947	0.50	39.55	C
ATOM	50	NH1	AARG	A	-3	12.218	84.840	88.007	0.50	40.76	N
ATOM	51	NH1	BARG	A	-3	14.338	86.056	88.706	0.50	40.23	N
ATOM	52	NH2	AARG	A	-3	14.421	84.308	88.373	0.50	40.45	N

* Adapted from <http://www.wwpdb.org/documentation/format33/sect9.html>