**geo\_2019\_v1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Default | Extra | Field | Key | Null | Type |
| None |  | pdb\_code | PRI | NO | char(4) |
| None |  | occupant | PRI | NO | char(1) |
| None |  | chain | PRI | NO | char(1) |
| None |  | amino\_no | PRI | NO | smallint(6) |
| None |  | amino\_code |  | NO | char(3) |
| None |  | ss\_psu |  | NO | varchar(3) |
| None |  | CP\_N |  | YES | decimal(10,3) |
| None |  | N\_CA |  | YES | decimal(10,3) |
| None |  | CA\_C |  | YES | decimal(10,3) |
| None |  | C\_NPP |  | YES | decimal(10,3) |
| None |  | CB\_O |  | YES | decimal(10,3) |
| None |  | N\_O |  | YES | decimal(10,3) |
| None |  | OP\_CA |  | YES | decimal(10,3) |
| None |  | O\_CAPP |  | YES | decimal(10,3) |
| None |  | C\_CBPP |  | YES | decimal(10,3) |
| None |  | CB\_NPP |  | YES | decimal(10,3) |
| None |  | OP\_CB |  | YES | decimal(10,3) |
| None |  | CP\_CB |  | YES | decimal(10,3) |
| None |  | CBP\_N |  | YES | decimal(10,3) |
| None |  | CAP\_CA |  | YES | decimal(10,3) |
| None |  | CA\_CAPP |  | YES | decimal(10,3) |
| None |  | N\_NPP |  | YES | decimal(10,3) |
| None |  | NP\_N |  | YES | decimal(10,3) |
| None |  | CP\_C |  | YES | decimal(10,3) |
| None |  | C\_CPP |  | YES | decimal(10,3) |
| None |  | TAUP |  | YES | decimal(10,3) |
| None |  | TAU |  | YES | decimal(10,3) |
| None |  | TAUPP |  | YES | decimal(10,3) |
| None |  | CA\_C\_O |  | YES | decimal(10,3) |
| None |  | O\_C\_NPP |  | YES | decimal(10,3) |
| None |  | OP\_CP\_N |  | YES | decimal(10,3) |
| None |  | N\_CA\_CB |  | YES | decimal(10,3) |
| None |  | CB\_CA\_C |  | YES | decimal(10,3) |
| None |  | PHI |  | YES | decimal(10,3) |
| None |  | PSI |  | YES | decimal(10,3) |
| None |  | OMEGA |  | YES | decimal(10,3) |
| None |  | CHI1 |  | YES | decimal(10,3) |
| None |  | CHI2 |  | YES | decimal(10,3) |
| None |  | atoms\_CP\_N |  | YES | varchar(40) |
| None |  | atoms\_N\_CA |  | YES | varchar(40) |
| None |  | atoms\_CA\_C |  | YES | varchar(40) |
| None |  | atoms\_C\_NPP |  | YES | varchar(40) |
| None |  | atoms\_CB\_O |  | YES | varchar(40) |
| None |  | atoms\_N\_O |  | YES | varchar(40) |
| None |  | atoms\_OP\_CA |  | YES | varchar(40) |
| None |  | atoms\_O\_CAPP |  | YES | varchar(40) |
| None |  | atoms\_C\_CBPP |  | YES | varchar(40) |
| None |  | atoms\_CB\_NPP |  | YES | varchar(40) |
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| None |  | atoms\_CP\_CB |  | YES | varchar(40) |
| None |  | atoms\_CBP\_N |  | YES | varchar(40) |
| None |  | atoms\_CAP\_CA |  | YES | varchar(40) |
| None |  | atoms\_CA\_CAPP |  | YES | varchar(40) |
| None |  | atoms\_N\_NPP |  | YES | varchar(40) |
| None |  | atoms\_NP\_N |  | YES | varchar(40) |
| None |  | atoms\_CP\_C |  | YES | varchar(40) |
| None |  | atoms\_C\_CPP |  | YES | varchar(40) |
| None |  | atoms\_TAUP |  | YES | varchar(40) |
| None |  | atoms\_TAU |  | YES | varchar(40) |
| None |  | atoms\_TAUPP |  | YES | varchar(40) |
| None |  | atoms\_CA\_C\_O |  | YES | varchar(40) |
| None |  | atoms\_O\_C\_NPP |  | YES | varchar(40) |
| None |  | atoms\_OP\_CP\_N |  | YES | varchar(40) |
| None |  | atoms\_N\_CA\_CB |  | YES | varchar(40) |
| None |  | atoms\_CB\_CA\_C |  | YES | varchar(40) |
| None |  | atoms\_PHI |  | YES | varchar(40) |
| None |  | atoms\_PSI |  | YES | varchar(40) |
| None |  | atoms\_OMEGA |  | YES | varchar(40) |
| None |  | atoms\_CHI1 |  | YES | varchar(40) |
| None |  | atoms\_CHI2 |  | YES | varchar(40) |
| None |  | aminos\_CP\_N |  | YES | varchar(40) |
| None |  | aminos\_N\_CA |  | YES | varchar(40) |
| None |  | aminos\_CA\_C |  | YES | varchar(40) |
| None |  | aminos\_C\_NPP |  | YES | varchar(40) |
| None |  | aminos\_CB\_O |  | YES | varchar(40) |
| None |  | aminos\_N\_O |  | YES | varchar(40) |
| None |  | aminos\_OP\_CA |  | YES | varchar(40) |
| None |  | aminos\_O\_CAPP |  | YES | varchar(40) |
| None |  | aminos\_C\_CBPP |  | YES | varchar(40) |
| None |  | aminos\_CB\_NPP |  | YES | varchar(40) |
| None |  | aminos\_OP\_CB |  | YES | varchar(40) |
| None |  | aminos\_CP\_CB |  | YES | varchar(40) |
| None |  | aminos\_CBP\_N |  | YES | varchar(40) |
| None |  | aminos\_CAP\_CA |  | YES | varchar(40) |
| None |  | aminos\_CA\_CAPP |  | YES | varchar(40) |
| None |  | aminos\_N\_NPP |  | YES | varchar(40) |
| None |  | aminos\_NP\_N |  | YES | varchar(40) |
| None |  | aminos\_CP\_C |  | YES | varchar(40) |
| None |  | aminos\_C\_CPP |  | YES | varchar(40) |
| None |  | aminos\_TAUP |  | YES | varchar(40) |
| None |  | aminos\_TAU |  | YES | varchar(40) |
| None |  | aminos\_TAUPP |  | YES | varchar(40) |
| None |  | aminos\_CA\_C\_O |  | YES | varchar(40) |
| None |  | aminos\_O\_C\_NPP |  | YES | varchar(40) |
| None |  | aminos\_OP\_CP\_N |  | YES | varchar(40) |
| None |  | aminos\_N\_CA\_CB |  | YES | varchar(40) |
| None |  | aminos\_CB\_CA\_C |  | YES | varchar(40) |
| None |  | aminos\_PHI |  | YES | varchar(40) |
| None |  | aminos\_PSI |  | YES | varchar(40) |
| None |  | aminos\_OMEGA |  | YES | varchar(40) |
| None |  | aminos\_CHI1 |  | YES | varchar(40) |
| None |  | aminos\_CHI2 |  | YES | varchar(40) |
| None |  | codes\_CP\_N |  | YES | varchar(40) |
| None |  | codes\_N\_CA |  | YES | varchar(40) |
| None |  | codes\_CA\_C |  | YES | varchar(40) |
| None |  | codes\_C\_NPP |  | YES | varchar(40) |
| None |  | codes\_CB\_O |  | YES | varchar(40) |
| None |  | codes\_N\_O |  | YES | varchar(40) |
| None |  | codes\_OP\_CA |  | YES | varchar(40) |
| None |  | codes\_O\_CAPP |  | YES | varchar(40) |
| None |  | codes\_C\_CBPP |  | YES | varchar(40) |
| None |  | codes\_CB\_NPP |  | YES | varchar(40) |
| None |  | codes\_OP\_CB |  | YES | varchar(40) |
| None |  | codes\_CP\_CB |  | YES | varchar(40) |
| None |  | codes\_CBP\_N |  | YES | varchar(40) |
| None |  | codes\_CAP\_CA |  | YES | varchar(40) |
| None |  | codes\_CA\_CAPP |  | YES | varchar(40) |
| None |  | codes\_N\_NPP |  | YES | varchar(40) |
| None |  | codes\_NP\_N |  | YES | varchar(40) |
| None |  | codes\_CP\_C |  | YES | varchar(40) |
| None |  | codes\_C\_CPP |  | YES | varchar(40) |
| None |  | codes\_TAUP |  | YES | varchar(40) |
| None |  | codes\_TAU |  | YES | varchar(40) |
| None |  | codes\_TAUPP |  | YES | varchar(40) |
| None |  | codes\_CA\_C\_O |  | YES | varchar(40) |
| None |  | codes\_O\_C\_NPP |  | YES | varchar(40) |
| None |  | codes\_OP\_CP\_N |  | YES | varchar(40) |
| None |  | codes\_N\_CA\_CB |  | YES | varchar(40) |
| None |  | codes\_CB\_CA\_C |  | YES | varchar(40) |
| None |  | codes\_PHI |  | YES | varchar(40) |
| None |  | codes\_PSI |  | YES | varchar(40) |
| None |  | codes\_OMEGA |  | YES | varchar(40) |
| None |  | codes\_CHI1 |  | YES | varchar(40) |
| None |  | codes\_CHI2 |  | YES | varchar(40) |
| None |  | CHI3 |  | YES | decimal(10,3) |
| None |  | CHI4 |  | YES | decimal(10,3) |
| None |  | CHI5 |  | YES | decimal(10,3) |
| None |  | C\_O |  | YES | decimal(10,3) |
| None |  | CA\_CB\_CG |  | YES | decimal(10,3) |
| None |  | IMP1 |  | YES | decimal(10,3) |
| None |  | IMP2 |  | YES | decimal(10,3) |
| None |  | IMP3 |  | YES | decimal(10,3) |
| None |  | IMP4 |  | YES | decimal(10,3) |
| None |  | IMP5 |  | YES | decimal(10,3) |
| None |  | atoms\_CHI3 |  | YES | varchar(40) |
| None |  | atoms\_CHI4 |  | YES | varchar(40) |
| None |  | atoms\_CHI5 |  | YES | varchar(40) |
| None |  | atoms\_C\_O |  | YES | varchar(40) |
| None |  | atoms\_CA\_CB\_CG |  | YES | varchar(40) |
| None |  | atoms\_IMP1 |  | YES | varchar(40) |
| None |  | atoms\_IMP2 |  | YES | varchar(40) |
| None |  | atoms\_IMP3 |  | YES | varchar(40) |
| None |  | atoms\_IMP4 |  | YES | varchar(40) |
| None |  | atoms\_IMP5 |  | YES | varchar(40) |
| None |  | aminos\_CHI3 |  | YES | varchar(40) |
| None |  | aminos\_CHI4 |  | YES | varchar(40) |
| None |  | aminos\_CHI5 |  | YES | varchar(40) |
| None |  | aminos\_C\_O |  | YES | varchar(40) |
| None |  | aminos\_CA\_CB\_CG |  | YES | varchar(40) |
| None |  | aminos\_IMP1 |  | YES | varchar(40) |
| None |  | aminos\_IMP2 |  | YES | varchar(40) |
| None |  | aminos\_IMP3 |  | YES | varchar(40) |
| None |  | aminos\_IMP4 |  | YES | varchar(40) |
| None |  | aminos\_IMP5 |  | YES | varchar(40) |
| None |  | codes\_CHI3 |  | YES | varchar(40) |
| None |  | codes\_CHI4 |  | YES | varchar(40) |
| None |  | codes\_CHI5 |  | YES | varchar(40) |
| None |  | codes\_C\_O |  | YES | varchar(40) |
| None |  | codes\_CA\_CB\_CG |  | YES | varchar(40) |
| None |  | codes\_IMP1 |  | YES | varchar(40) |
| None |  | codes\_IMP2 |  | YES | varchar(40) |
| None |  | codes\_IMP3 |  | YES | varchar(40) |
| None |  | codes\_IMP4 |  | YES | varchar(40) |
| None |  | codes\_IMP5 |  | YES | varchar(40) |
| None |  | HG\_O |  | YES | decimal(10,3) |
| None |  | atoms\_HG\_O |  | YES | varchar(40) |
| None |  | aminos\_HG\_O |  | YES | varchar(40) |
| None |  | codes\_HG\_O |  | YES | varchar(40) |
| None |  | HG\_NP |  | YES | decimal(10,3) |
| None |  | atoms\_HG\_NP |  | YES | varchar(40) |
| None |  | aminos\_HG\_NP |  | YES | varchar(40) |
| None |  | codes\_HG\_NP |  | YES | varchar(40) |
| None |  | CAP\_CA\_CAPP |  | YES | decimal(10,3) |
| None |  | atoms\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| None |  | aminos\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| None |  | codes\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| None |  | CAP2\_CAP\_CA |  | YES | decimal(10,3) |
| None |  | atoms\_CAP2\_CAP\_CA |  | YES | varchar(40) |
| None |  | aminos\_CAP2\_CAP\_CA |  | YES | varchar(40) |
| None |  | codes\_CAP2\_CAP\_CA |  | YES | varchar(40) |
| None |  | CA\_CAPP\_CAPP2 |  | YES | decimal(10,3) |
| None |  | atoms\_CA\_CAPP\_CAPP2 |  | YES | varchar(40) |
| None |  | aminos\_CA\_CAPP\_CAPP2 |  | YES | varchar(40) |
| None |  | codes\_CA\_CAPP\_CAPP2 |  | YES | varchar(40) |
| None |  | N\_CA\_C\_O |  | YES | decimal(10,3) |
| None |  | atoms\_N\_CA\_C\_O |  | YES | varchar(40) |
| None |  | aminos\_N\_CA\_C\_O |  | YES | varchar(40) |
| None |  | codes\_N\_CA\_C\_O |  | YES | varchar(40) |
| None |  | CAP2\_CAP\_CA\_CAPP |  | YES | decimal(10,3) |
| None |  | atoms\_CAP2\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| None |  | aminos\_CAP2\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| None |  | codes\_CAP2\_CAP\_CA\_CAPP |  | YES | varchar(40) |
| - |  | dssp |  | YES | char(1) |