```
* Q-FF params: GROMOS87 parameters
*---------------------------------------------------------
[options] force-field options
vdw_rule       geometric   ! vdW combination rule
scale_14       1.0 ! electrostatic 1-4 scaling factor

[atom_types] atom type definitions
*tac--- ---Avdw1---Avdw2---Bvdw1----Avdw3---Bvdw2&3---mass----SYBYL-name-old-
comment
H.np         0.00      0.00     0.00      0.00     0.00      3.000  H   ! HC   -
non-polar H
C.3        898.00      0.00    23.65    898.00    23.65    12.001  C.3 ! Csp3 -
bare sp3 C

[atom_aliases]
10     H.np
20     C.3

[LJ_type2_pairs] type-2 van der Waals interaction atom type pairs
*-------------------------------------------------------------------------
N.pep   O.SPC
N.pep   Cl-

[bonds] bond types definitions
*iaci iacj   force.c.  dist.     SYBYL
*-------------------------------------------------------------------------
H.np    C.3         700.000   1.090      1
H.np    C.2         700.000   1.090      1

[angles] angle type definitions
* iaci iacj iack  forceK angle0
*-------------------------------------------------------------------------
H.np    C.3     H.np       90.00  106.60
H.np    C.3     C.ar6H     90.00  109.50

[torsions] torsion type definitions
*iaci iacj iack iacl  forceK  #minima phase   #paths
*-------------------------------------------------------------------------
?       C.3     C.3H    ?          1.400   3.000    0.000    6
O.3s    C.3sH   C.3sH   O.3s       1.400  -3.000    0.000    1

[impropers] improper torsion type definitions
*iaci iacj forceK   imp0
*-------------------------------------------------------------------------
C.2     ?         40.000  180.000
```