

MASS	1	CT2P	12.01100	C
MASS	1	HA2P	1.00794	H
MASS	1	CAP	12.01100	C
MASS	1	HPP	1.00794	H
MASS	1	OH1P	15.99900	O
MASS	1	HP	1.00794	H

AUTO ANGLES DIHE

RESI	TYRP	1.00	
GROUP			
ATOM	N	NH1	-0.47
ATOM	HN	H	0.31
ATOM	CA	CT1	0.07
ATOM	HA	HB1	0.09
GROUP			
ATOM	CB	CT2P	-0.05
ATOM	HB1	HA2P	0.09
ATOM	HB2	HA2P	0.09
ATOM	CG	CAP	0.13
ATOM	CD1	CAP	-0.06
ATOM	HD1	HPP	0.25
ATOM	CE1	CAP	-0.36
ATOM	HE1	HPP	0.19
ATOM	CZ	CAP	0.74
ATOM	OH	OH1P	-0.79
ATOM	HH	HP	0.75
ATOM	CD2	CAP	-0.06
ATOM	HD2	HPP	0.25
ATOM	CE2	CAP	-0.36
ATOM	HE2	HPP	0.19
GROUP			
ATOM	C	C	0.51
ATOM	O	O	-0.51
BOND	CB	HB1	CB HB2 CB CG
BOND	CG	CD2	CG CD1 CD1 CE1
BOND	CD1	HD1	CE1 CZ CE1 HE1 CZ CE2
BOND	CZ	OH	OH HH CD2 CE2 CD2 HD2
BOND	CE2	HE2	
BOND	CB	CA	
BOND	N	HN	N CA C CA C +N
DOUBLE	O	C	
IMPR	N	-C	CA HN C CA +N O
CMAP	-C	N	CA C N CA C +N

END