

Limecycline
Liquamycin
Liquamycin, veterinary
Medocycline
Mericycline
Micycline
Neocycline
Omegamycin
Orlycycline
Panmycin
Piracaps (base)
Polycycline
Polycycline, antibiotic
Purocyclina
Resteclin
Robitet
Roviciclina
SK-Tetracycline
Sanclomycine
Sigmamycin
Steclin
T-125
Tetra-Co
Tetra-Proter
Tetrabon
Tetracycline I
Tetracycline II
Tetracyn
Tetradecin
Tetrafil
Tetraseptine
Tetraverine
Tsiklomitsin
Veracin
Vetacyclinum
Vetquamycin-324 (free base)

Inchi:

InChI=1S/C22H24N2O8/c1-21(31)8-5-4-6-11(25)12(8)16(26)13-9(21)7-10-15(24(2)3)17(

InchiKey:

OFVLGDICTFRJMM-UHFFFAOYSA-N

Formula:

C22H24N2O8

SMILES:

CN(C)C1C(O)=C(C(N)=O)C(=O)C2(O)C(O)=C3C(=O)c4c(O)cccc4C(C)(O)C3CC12

Mol. weight [g/mol]:

444.43

CAS:

60-54-8

Physical Properties

Property code	Value	Unit	Source
gf	-520.68	kJ/mol	Joback Method
hf	-1085.84	kJ/mol	Joback Method
hfus	55.90	kJ/mol	Joback Method
hvap	175.73	kJ/mol	Joback Method
log10ws	-2.44		Aqueous Solubility Prediction Method
logp	-0.214		Crippen Method
mcvol	309.920	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
tb	1500.65	K	Joback Method
tc	1927.79	K	Joback Method
tf	323.65	K	Aqueous Solubility Prediction Method
vc	1.081	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1614.66	J/mol×K	1500.65	Joback Method
cpg	1742.02	J/mol×K	1571.84	Joback Method
cpg	1888.30	J/mol×K	1643.03	Joback Method
cpg	2055.42	J/mol×K	1714.22	Joback Method
cpg	2245.34	J/mol×K	1785.41	Joback Method
cpg	2459.98	J/mol×K	1856.60	Joback Method
cpg	2701.27	J/mol×K	1927.79	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C60548&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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