

Acebutolol

Other names:	(. +/-)-3'-Acetyl-4'-[2-hydroxy-3-(1-methylethylamino)propoxy]butyranilide (. +/-)-3'-Acetyl-4'-[2-hydroxy-3-(isopropylamino)propoxy]butyranilide (. +/-)-Acebutolol (. +/-)-N-(3-Acetyl-4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)butanamide 1-(2-Acetyl-4-n-butylamidophenoxy)-2-hydroxy-3-isopropylaminopropane 3'-Acetyl-4'-(2-hydroxy-3-(isopropylamino)propoxy)butyranilide 5'-Butyramido-2'-(2-hydroxy-3-isopropylaminopropoxy)acetophenone Butanamide, N-[3-acetyl-4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]- Butanamide, N-[3-acetyl-4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]-, (+/-)- Mofitan Neptal Prent dl-Acebutolol
Inchi:	InChI=1S/C18H28N2O4/c1-5-6-18(23)20-14-7-8-17(16(9-14)13(4)21)24-11-15(22)10-19
InchiKey:	GOEMGAFJFRBGGG-UHFFFAOYSA-N
Formula:	C18H28N2O4
SMILES:	CCCC(=O)Nc1ccc(OCC(O)CNC(C)C)c(C(C)=O)c1
Mol. weight [g/mol]:	336.43
CAS:	37517-30-9

Physical Properties

Property code	Value	Unit	Source
gf	-131.93	kJ/mol	Joback Method
hf	-614.49	kJ/mol	Joback Method
hfus	47.26	kJ/mol	Joback Method
hvap	103.94	kJ/mol	Joback Method
log10ws	-2.71		Aqueous Solubility Prediction Method
logp	2.365		Crippen Method
mcvol	275.560	ml/mol	McGowan Method
pc	1733.22	kPa	Joback Method
rinpol	2795.00		NIST Webbook
rinpol	2795.00		NIST Webbook
tb	969.68	K	Joback Method
tc	1188.02	K	Joback Method
tf	393.75	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	903.15	J/mol×K	969.68	Joback Method
cpg	915.38	J/mol×K	1006.07	Joback Method
cpg	926.48	J/mol×K	1042.46	Joback Method
cpg	936.48	J/mol×K	1078.85	Joback Method
cpg	945.43	J/mol×K	1115.24	Joback Method
cpg	953.35	J/mol×K	1151.63	Joback Method
cpg	960.30	J/mol×K	1188.02	Joback Method

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset003.xlsx/351830174/AqueousDa>

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

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C37517309&Units=SI>

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

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

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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