

Sotalol

Other names:	Methanesulfonanilide, 4'-(1-hydroxy-2-(isopropylamino)ethyl)-«beta»-Cardone Methanesulfonamide, N-(4-(1-hydroxy-2-((1-methylethyl)amino)ethyl)phenyl)-4'-[1-Hhydroxy-2-(isopropylamino)ethyl]methanesulfonanilide 4'-[1-Hydroxy-2-(isopropylamino)ethyl]metahnesulfonanilide 4'-[1-Hydroxy-2-(isopropylamino)ethyl]methanesulfonanilide
Inchi:	InChI=1S/C12H20N2O3S/c1-9(2)13-8-12(15)10-4-6-11(7-5-10)14-18(3,16)17/h4-7,9,12-15
InchiKey:	ZBMZVLHSJCTVON-UHFFFAOYSA-N
Formula:	C12H20N2O3S
SMILES:	CC(C)NCC(O)c1ccc(NS(C)(=O)=O)cc1
Mol. weight [g/mol]:	272.36
CAS:	3930-20-9

Physical Properties

Property code	Value	Unit	Source
gf	-278.52	kJ/mol	Joback Method
hf	-575.15	kJ/mol	Joback Method
hfus	39.11	kJ/mol	Joback Method
hvap	92.65	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	1.090		Crippen Method
mcvol	210.100	ml/mol	McGowan Method
pc	3210.04	kPa	Joback Method
tb	745.04	K	Joback Method
tc	939.23	K	Joback Method
tf	438.64	K	Joback Method
vc	0.802	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	600.56	J/mol×K	745.04	Joback Method
cpg	613.57	J/mol×K	777.41	Joback Method
cpg	625.67	J/mol×K	809.77	Joback Method

cpg	636.89	J/mol×K	842.14	Joback Method
cpg	647.24	J/mol×K	874.50	Joback Method
cpg	656.76	J/mol×K	906.87	Joback Method
cpg	665.45	J/mol×K	939.23	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3930209&Units=SI

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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