

Silhiperfolan-6-ol I

Inchi:	InChI=1S/C15H26O/c1-10-5-8-15-11(2)14(4,16)9-13(15,3)7-6-12(10)15/h10-12,16H,5-9H
InchiKey:	SNSNYEAITDGGIF-ACUBNOEUSA-N
Formula:	C15H26O
SMILES:	CC1CCC23C1CCC2(C)CC(C)(O)C3C
Mol. weight [g/mol]:	222.37

Physical Properties

Property code	Value	Unit	Source
gf	57.05	kJ/mol	Joback Method
hf	-314.38	kJ/mol	Joback Method
hfus	13.22	kJ/mol	Joback Method
hvap	61.37	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.610		Crippen Method
mcvol	195.500	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
ripol	1510.00		NIST Webbook
ripol	1930.00		NIST Webbook
ripol	1930.00		NIST Webbook
tb	650.25	K	Joback Method
tc	863.66	K	Joback Method
tf	425.39	K	Joback Method
vc	0.741	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.75	J/molxK	650.25	Joback Method
cpg	615.74	J/molxK	685.82	Joback Method
cpg	634.97	J/molxK	721.39	Joback Method
cpg	653.76	J/molxK	756.96	Joback Method
cpg	672.45	J/molxK	792.52	Joback Method
cpg	691.37	J/molxK	828.09	Joback Method
cpg	710.84	J/molxK	863.66	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R226307&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
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
rinpolar:	Non-polar retention indices
ripolar:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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