2«beta»-hydroxy-6«alpha»-methoxy-trans-decalin

Inchi: InChI=1S/C11H20O2/c1-13-11-5-3-8-6-10(12)4-2-9(8)7-11/h8-12H,2-7H2,1H3/t8?,9?,10-
InchiKey: TUXPVWASPKOLEG-LXKPXOPUSA-N
Formula: C11H20O2
SMILES: COC1CCC2CC(O)CCC2C1
Mol. weight [g/mol]: 184.28

Physical Properties

Property code	Value	Unit	Source
gf	-142.40	kJ/mol	Joback Method
hf	-474.54	kJ/mol	Joback Method
hfus	19.53	kJ/mol	Joback Method
hvap	59.06	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	1.963		Crippen Method
mcvol	155.870	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
rinpol	1457.00		NIST Webbook
ripol	2230.00		NIST Webbook
ripol	2230.00		NIST Webbook
tb	586.90	K	Joback Method
tc	788.20	K	Joback Method
tf	310.10	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.40	J/mol×K	586.90	Joback Method
cpg	521.30	J/mol×K	754.65	Joback Method
cpg	506.29	J/mol×K	721.10	Joback Method
cpg	490.32	J/mol×K	687.55	Joback Method
cpg	473.36	J/mol×K	654.00	Joback Method
cpg	455.39	J/mol×K	620.45	Joback Method
cpg	535.37	J/mol×K	788.20	Joback Method

dvisc	0.0001756	Pa×s	586.90	Joback Method
dvisc	0.0002530	Pa×s	540.77	Joback Method
dvisc	0.0003904	Pa×s	494.63	Joback Method
dvisc	0.0006585	Pa×s	448.50	Joback Method
dvisc	0.0012523	Pa×s	402.37	Joback Method
dvisc	0.0028129	Pa×s	356.23	Joback Method
dvisc	0.0080384	Pa×s	310.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136219&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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