

2«alpha»-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-TVUZUIDESA-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
mvol	155.870	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
ripol	1448.00		NIST Webbook
ripol	2188.00		NIST Webbook
tb	586.90	K	Joback Method
tc	788.20	K	Joback Method
tf	310.10	K	Joback Method
vc	0.569	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.40	J/molxK	586.90	Joback Method
cpg	521.30	J/molxK	754.65	Joback Method
cpg	506.29	J/molxK	721.10	Joback Method
cpg	490.32	J/molxK	687.55	Joback Method
cpg	473.36	J/molxK	654.00	Joback Method
cpg	455.39	J/molxK	620.45	Joback Method
cpg	535.37	J/molxK	788.20	Joback Method
dvisc	0.0001756	Paxs	586.90	Joback Method

dvisc	0.0002530	Paxs	540.77	Joback Method
dvisc	0.0003904	Paxs	494.63	Joback Method
dvisc	0.0006585	Paxs	448.50	Joback Method
dvisc	0.0012523	Paxs	402.37	Joback Method
dvisc	0.0028129	Paxs	356.23	Joback Method
dvisc	0.0080384	Paxs	310.10	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R136071&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/43-241-6/2-alpha-hydroxy-6-alpha-methoxy-trans-decalin.pdf>

Generated by Cheméo on 2024-04-18 05:02:13.413750095 +0000 UTC m=+15705782.334327407.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.