Dihydroartemisinic alcohol

Inchi: InChI=1S/C15H26O/c1-10-4-6-13-11(2)5-7-14(12(3)9-16)15(13)8-10/h8,11-16H,4-7,9H2,
InchiKey: SIKURLYPEUHJFQ-OKMQTDMMSA-N
Formula: C15H26O
SMILES: CC1=CC2C(C(C)CO)CCC(C)C2CC1
Mol. weight [g/mol]: 222.37

Physical Properties

Property code	Value	Unit	Source
gf	14.17	kJ/mol	Joback Method
hf	-383.85	kJ/mol	Joback Method
hfus	26.02	kJ/mol	Joback Method
hvap	66.12	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.633		Crippen Method
mcvol	202.060	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	1755.00		NIST Webbook
rinpol	1755.00		NIST Webbook
ripol	2419.00		NIST Webbook
tb	659.70	K	Joback Method
tc	858.28	K	Joback Method
tf	331.23	K	Joback Method
vc	0.754	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.30	J/mol×K	659.70	Joback Method
cpg	690.40	J/mol×K	825.19	Joback Method
cpg	674.70	J/mol×K	792.09	Joback Method
cpg	657.98	J/mol×K	758.99	Joback Method
cpg	640.20	J/mol×K	725.89	Joback Method
cpg	621.31	J/mol×K	692.80	Joback Method
cpg	705.12	J/mol×K	858.28	Joback Method

dvisc	0.0001272	Pa×s	659.70	Joback Method
dvisc	0.0001831	Pa×s	604.96	Joback Method
dvisc	0.0002837	Pa×s	550.21	Joback Method
dvisc	0.0004839	Pa×s	495.47	Joback Method
dvisc	0.0009426	Pa×s	440.72	Joback Method
dvisc	0.0022185	Pa×s	385.98	Joback Method
dvisc	0.0069291	Pa×s	331.23	Joback Method

Sources

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=R603784&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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