2«beta»-acetoxy-trans-decalin

Inchi: InChI=1S/C12H20O2/c1-9(13)14-12-7-6-10-4-2-3-5-11(10)8-12/h10-12H,2-8H2,1H3/t10?
InchiKey: XKCLIPLFEJSOAT-HTAVTVPLSA-N
Formula: C12H20O2
SMILES: CC(=O)OC1CCC2CCCCC2C1
Mol. weight [g/mol]: 196.29

Physical Properties

Property code	Value	Unit	Source
gf	-118.37	kJ/mol	Joback Method
hf	-435.19	kJ/mol	Joback Method
hfus	18.56	kJ/mol	Joback Method
hvap	51.67	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.908		Crippen Method
mcvol	165.660	ml/mol	McGowan Method
pc	2507.52	kPa	Joback Method
rinpol	1429.00		NIST Webbook
ripol	1903.00		NIST Webbook
tb	576.14	K	Joback Method
tc	797.36	K	Joback Method
tf	314.72	K	Joback Method
vc	0.613	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.50	J/mol×K	576.14	Joback Method
cpg	538.53	J/mol×K	760.49	Joback Method
cpg	522.00	J/mol×K	723.62	Joback Method
cpg	504.26	J/mol×K	686.75	Joback Method
cpg	485.29	J/mol×K	649.88	Joback Method
cpg	465.05	J/mol×K	613.01	Joback Method
cpg	553.90	J/mol×K	797.36	Joback Method
dvisc	0.0004055	Pa×s	576.14	Joback Method

dvisc	0.0004935	Pa×s	532.57	Joback Method
dvisc	0.0006219	Pa×s	489.00	Joback Method
dvisc	0.0008201	Pa×s	445.43	Joback Method
dvisc	0.0011482	Pa×s	401.86	Joback Method
dvisc	0.0017448	Pa×s	358.29	Joback Method
dvisc	0.0029771	Pa×s	314.72	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136175&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