2,5-Dimethyl-3-(3-methylbutyl)-tetrahydrofuran

Inchi: InChI=1S/C11H22O/c1-8(2)5-6-11-7-9(3)12-10(11)4/h8-11H,5-7H2,1-4H3
InchiKey: RRMWFLAUEYCDIF-UHFFFAOYSA-N
Formula: C11H22O
SMILES: CC(C)CCC1CC(C)OC1C
Mol. weight [g/mol]: 170.29

Physical Properties

Property code	Value	Unit	Source
gf	-25.69	kJ/mol	Joback Method
hf	-387.85	kJ/mol	Joback Method
hfus	24.78	kJ/mol	Joback Method
hvap	43.84	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	3.236		Crippen Method
mcvol	160.860	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	1137.00		NIST Webbook
rinpol	1137.00		NIST Webbook
tb	483.53	K	Joback Method
tc	674.13	K	Joback Method
tf	227.72	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.40	J/mol×K	483.53	Joback Method
cpg	471.38	J/mol×K	642.36	Joback Method
cpg	455.07	J/mol×K	610.60	Joback Method
cpg	437.94	J/mol×K	578.83	Joback Method
cpg	419.96	J/mol×K	547.06	Joback Method
cpg	401.12	J/mol×K	515.30	Joback Method
cpg	486.88	J/mol×K	674.13	Joback Method
dvisc	0.0003266	Pa×s	483.53	Joback Method

dvisc	0.0004010	Pa×s	440.89	Joback Method
dvisc	0.0005145	Pa×s	398.26	Joback Method
dvisc	0.0007008	Pa×s	355.62	Joback Method
dvisc	0.0010384	Pa×s	312.99	Joback Method
dvisc	0.0017416	Pa×s	270.36	Joback Method
dvisc	0.0035453	Pa×s	227.72	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R405699&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume