Tetrahydrofuran-3-butyl-2,5-dimethyl

Inchi: InChI=1S/C10H20O/c1-4-5-6-10-7-8(2)11-9(10)3/h8-10H,4-7H2,1-3H3
InchiKey: RLPYKSKGVARILC-UHFFFAOYSA-N
Formula: C10H20O
SMILES: CCCCC1CC(C)OC1C
Mol. weight [g/mol]: 156.27

Physical Properties

Property code	Value	Unit	Source
gf	-31.67	kJ/mol	Joback Method
hf	-361.93	kJ/mol	Joback Method
hfus	25.71	kJ/mol	Joback Method
hvap	42.00	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.990		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
tb	461.09	K	Joback Method
tc	649.59	K	Joback Method
tf	231.45	K	Joback Method
vc	0.555	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.12	J/mol×K	461.09	Joback Method
cpg	352.56	J/mol×K	492.51	Joback Method
cpg	370.21	J/mol×K	523.92	Joback Method
cpg	387.08	J/mol×K	555.34	Joback Method
cpg	403.20	J/mol×K	586.76	Joback Method
cpg	418.56	J/mol×K	618.18	Joback Method
cpg	433.19	J/mol×K	649.59	Joback Method
dvisc	0.0023864	Pa×s	231.45	Joback Method
dvisc	0.0013791	Pa×s	269.72	Joback Method
dvisc	0.0009133	Pa×s	308.00	Joback Method

dvisc	0.0006626	Pa×s	346.27	Joback Method
dvisc	0.0005124	Pa×s	384.54	Joback Method
dvisc	0.0004151	Pa×s	422.82	Joback Method
dvisc	0.0003482	Pa×s	461.09	Joback Method

Sources

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=R405951&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume