Tetrahydrofuran, 3-isopropyl-2-(3-methylcyclopent-2-enyl)

Inchi: InChI=1S/C13H22O/c1-9(2)11-7-8-14-13(11)12-6-4-5-10(12)3/h6,9-11,13H,4-5,7-8H2,1-3

InchiKey: RLVBOJOICUKZPB-UHFFFAOYSA-N

Formula: C13H22O

SMILES: CC1CCC=C1C1OCCC1C(C)C

Mol. weight [g/mol]: 194.31

Physical Properties

Property code	Value	Unit	Source
gf	55.74	kJ/mol	Joback Method
hf	-302.00	kJ/mol	Joback Method
hfus	23.66	kJ/mol	Joback Method
hvap	49.81	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.404		Crippen Method
mcvol	173.880	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
rinpol	1390.00		NIST Webbook
rinpol	1390.00		NIST Webbook
ripol	1705.00		NIST Webbook
ripol	1705.00		NIST Webbook
tb	553.38	K	Joback Method
tc	771.11	K	Joback Method
tf	278.68	K	Joback Method
vc	0.645	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	453.33	J/mol×K	553.38	Joback Method
cpg	475.78	J/mol×K	589.67	Joback Method
cpg	496.90	J/mol×K	625.96	Joback Method
cpg	516.76	J/mol×K	662.24	Joback Method
cpg	535.39	J/mol×K	698.53	Joback Method
cpg	552.83	J/mol×K	734.82	Joback Method

cpg	569.15	J/mol×K	771.11	Joback Method
dvisc	0.0033995	Pa×s	278.68	Joback Method
dvisc	0.0018271	Pa×s	324.46	Joback Method
dvisc	0.0011450	Pa×s	370.25	Joback Method
dvisc	0.0007952	Pa×s	416.03	Joback Method
dvisc	0.0005937	Pa×s	461.81	Joback Method
dvisc	0.0004673	Pa×s	507.60	Joback Method
dvisc	0.0003826	Pa×s	553.38	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=R199309&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
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