3,4-Dihydro-2H-pyran, 3-isopropyl-6-methyl-2-(3-methylcyclopent-2-enyl

Inchi: InChI=1S/C15H24O/c1-10(2)14-8-6-12(4)16-15(14)13-7-5-11(3)9-13/h6,9-10,13-15H,5,7

InchiKey: GUDFQPBIOYFJEG-UHFFFAOYSA-N

Formula: C15H24O

SMILES: CC1=CC(C2OC(C)=CCC2C(C)C)CC1

Mol. weight [g/mol]: 220.35

Physical Properties

Property code	Value	Unit	Source
gf	80.81	kJ/mol	Joback Method
hf	-303.13	kJ/mol	Joback Method
hfus	27.57	kJ/mol	Joback Method
hvap	55.39	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.308		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
rinpol	1478.00		NIST Webbook
ripol	1723.00		NIST Webbook
tb	607.55	K	Joback Method
tc	828.08	K	Joback Method
tf	310.98	K	Joback Method
vc	0.736	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.33	J/mol×K	607.55	Joback Method
cpg	641.87	J/mol×K	791.32	Joback Method
cpg	624.35	J/mol×K	754.57	Joback Method
cpg	605.57	J/mol×K	717.81	Joback Method
cpg	585.51	J/mol×K	681.06	Joback Method
cpg	564.11	J/mol×K	644.30	Joback Method
cpg	658.18	J/mol×K	828.08	Joback Method
dvisc	0.0002660	Pa×s	607.55	Joback Method

dvisc	0.0003301	Pa×s	558.12	Joback Method
dvisc	0.0004271	Pa×s	508.69	Joback Method
dvisc	0.0005843	Pa×s	459.26	Joback Method
dvisc	0.0008621	Pa×s	409.84	Joback Method
dvisc	0.0014150	Pa×s	360.41	Joback Method
dvisc	0.0027190	Pa×s	310.98	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=R198757&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