Dicyclohexylcarbinol, formate

Inchi: InChI=1S/C14H24O2/c15-11-16-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h11-14H,1-10H2
InchiKey: UFZVWVJBGNATRO-UHFFFAOYSA-N
Formula: C14H24O2
SMILES: O=COC(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]: 224.34

Physical Properties

Property code	Value	Unit	Source
gf	-91.06	kJ/mol	Joback Method
hf	-446.73	kJ/mol	Joback Method
hfus	15.64	kJ/mol	Joback Method
hvap	56.36	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.689		Crippen Method
mcvol	193.840	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	1665.00		NIST Webbook
tb	629.46	K	Joback Method
tc	857.06	K	Joback Method
tf	311.53	K	Joback Method
vc	0.715	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	553.54	J/mol×K	629.46	Joback Method
cpg	656.63	J/mol×K	819.13	Joback Method
cpg	639.03	J/mol×K	781.20	Joback Method
cpg	619.95	J/mol×K	743.26	Joback Method
cpg	599.37	J/mol×K	705.33	Joback Method
cpg	577.25	J/mol×K	667.39	Joback Method
cpg	672.81	J/mol×K	857.06	Joback Method
dvisc	0.0001775	Pa×s	629.46	Joback Method
dvisc	0.0002458	Pa×s	576.47	Joback Method

dvisc	0.0003636	Pa×s	523.48	Joback Method
dvisc	0.0005875	Pa×s	470.50	Joback Method
dvisc	0.0010721	Pa×s	417.51	Joback Method
dvisc	0.0023302	Pa×s	364.52	Joback Method
dvisc	0.0065955	Pa×s	311.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R120195&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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