Dicyclopentylcarbinol

Inchi: InChI=1S/C11H20O/c12-11(9-5-1-2-6-9)10-7-3-4-8-10/h9-12H,1-8H2
InchiKey: KJMCBUHSRCZHHX-UHFFFAOYSA-N
Formula: C11H20O
SMILES: OC(C1CCCC1)C1CCCC1
Mol. weight [g/mol]: 168.28

Physical Properties

Property code	Value	Unit	Source
gf	-24.42	kJ/mol	Joback Method
hf	-306.92	kJ/mol	Joback Method
hfus	12.68	kJ/mol	Joback Method
hvap	56.89	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.728		Crippen Method
mcvol	150.000	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
rinpol	1408.00		NIST Webbook
rinpol	1408.00		NIST Webbook
tb	573.38	K	Joback Method
tc	781.07	K	Joback Method
tf	281.35	K	Joback Method
vc	0.546	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.28	J/mol×K	573.38	Joback Method
cpg	490.47	J/mol×K	746.46	Joback Method
cpg	475.74	J/mol×K	711.84	Joback Method
cpg	460.01	J/mol×K	677.23	Joback Method
cpg	443.23	J/mol×K	642.61	Joback Method
cpg	425.33	J/mol×K	608.00	Joback Method
cpg	504.24	J/mol×K	781.07	Joback Method
dvisc	0.0001623	Pa×s	573.38	Joback Method

dvisc	0.0002605	Pa×s	524.71	Joback Method
dvisc	0.0004606	Pa×s	476.04	Joback Method
dvisc	0.0009274	Pa×s	427.37	Joback Method
dvisc	0.0022353	Pa×s	378.69	Joback Method
dvisc	0.0069844	Pa×s	330.02	Joback Method
dvisc	0.0323672	Pa×s	281.35	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=R120204&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume