Cadina-1(10),4-dien-8«alpha»-ol

Inchi: InChI=1S/C15H24O/c1-9(2)15-13-7-10(3)5-6-12(13)11(4)8-14(15)16/h7,9,13-16H,5-6,8H
InchiKey: VAVHKURKIQXFJX-SLTAFYQDSA-N
Formula: C15H24O
SMILES: CC1=CC2C(=C(C)CC(O)C2C(C)C)CC1
Mol. weight [g/mol]: 220.35

Physical Properties

Property code	Value	Unit	Source
gf	32.58	kJ/mol	Joback Method
hf	-328.67	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	68.05	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.696		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
rinpol	1678.00		NIST Webbook
rinpol	1680.00		NIST Webbook
ripol	2302.00		NIST Webbook
tb	673.49	K	Joback Method
tc	875.43	K	Joback Method
tf	361.27	K	Joback Method
vc	0.742	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.36	J/mol×K	673.49	Joback Method
cpg	594.63	J/mol×K	707.15	Joback Method
cpg	611.87	J/mol×K	740.80	Joback Method
cpg	628.11	J/mol×K	774.46	Joback Method
cpg	643.39	J/mol×K	808.12	Joback Method
cpg	657.74	J/mol×K	841.77	Joback Method
cpg	671.20	J/mol×K	875.43	Joback Method

dvisc	0.0034789	Pa×s	361.27	Joback Method
dvisc	0.0013534	Pa×s	413.31	Joback Method
dvisc	0.0006503	Pa×s	465.34	Joback Method
dvisc	0.0003621	Pa×s	517.38	Joback Method
dvisc	0.0002244	Pa×s	569.42	Joback Method
dvisc	0.0001507	Pa×s	621.45	Joback Method
dvisc	0.0001076	Pa×s	673.49	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=R226194&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

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