

14-Hydroxy-«delta»-cadinene

Other names:	14-OH-«delta»-Cadinene
Inchi:	InChI=1S/C15H24O/c1-10(2)13-6-4-11(3)14-7-5-12(9-16)8-15(13)14/h8,10,13,15-16H,4-
InchiKey:	PSCGCYQLAZATGE-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	<chem>CC1=C2CCC(CO)=CC2C(C(C)C)CC1</chem>
Mol. weight [g/mol]:	220.35
CAS:	135118-52-4

Physical Properties

Property code	Value	Unit	Source
gf	40.29	kJ/mol	Joback Method
hf	-308.33	kJ/mol	Joback Method
hfus	24.32	kJ/mol	Joback Method
hvap	68.36	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.698		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	1807.00		NIST Webbook
rinpol	1799.00		NIST Webbook
rinpol	1798.00		NIST Webbook
rinpol	1796.00		NIST Webbook
rinpol	1811.00		NIST Webbook
rinpol	1785.00		NIST Webbook
rinpol	1799.00		NIST Webbook
rinpol	1802.00		NIST Webbook
rinpol	1802.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1803.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1803.00		NIST Webbook
rinpol	1764.00		NIST Webbook
rinpol	1788.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook

ripol	2613.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
ripol	2607.00		NIST Webbook
tb	678.16	K	Joback Method
tc	880.21	K	Joback Method
tf	365.51	K	Joback Method
vc	0.743	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.29	J/molxK	678.16	Joback Method
cpg	592.10	J/molxK	711.84	Joback Method
cpg	608.90	J/molxK	745.51	Joback Method
cpg	624.71	J/molxK	779.19	Joback Method
cpg	639.59	J/molxK	812.86	Joback Method
cpg	653.58	J/molxK	846.54	Joback Method
cpg	666.73	J/molxK	880.21	Joback Method
dvisc	0.0037002	Paxs	365.51	Joback Method
dvisc	0.0013485	Paxs	417.62	Joback Method
dvisc	0.0006148	Paxs	469.73	Joback Method
dvisc	0.0003279	Paxs	521.84	Joback Method
dvisc	0.0001961	Paxs	573.94	Joback Method
dvisc	0.0001277	Paxs	626.05	Joback Method
dvisc	0.0000888	Paxs	678.16	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=C135118524&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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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