

Isodihydrocarveol, acetate

Other names:	iso-Dihydrocarvyl acetate
Inchi:	InChI=1S/C12H20O2/c1-8(2)11-6-5-9(3)12(7-11)14-10(4)13/h9,11-12H,1,5-7H2,2-4H3/t9
InchiKey:	TUSIZTVSUSBSQI-ADEWGFFLSA-N
Formula:	C12H20O2
SMILES:	C=C(C)C1CCC(C)C(OC(C)=O)C1
Mol. weight [g/mol]:	196.29

Physical Properties

Property code	Value	Unit	Source
gf	-95.44	kJ/mol	Joback Method
hf	-406.53	kJ/mol	Joback Method
hfus	21.01	kJ/mol	Joback Method
hvap	50.68	kJ/mol	Joback Method
log10ws	-3.08		Crippen Method
logp	2.930		Crippen Method
mcvol	172.220	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	1325.00		NIST Webbook
rinpol	1323.00		NIST Webbook
rinpol	1326.00		NIST Webbook
rinpol	1328.00		NIST Webbook
rinpol	1323.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1322.00		NIST Webbook
rinpol	1328.00		NIST Webbook
rinpol	1315.00		NIST Webbook
tb	557.02	K	Joback Method
tc	763.76	K	Joback Method
tf	280.34	K	Joback Method
vc	0.644	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	435.53	J/mol×K	557.02	Joback Method
cpg	455.28	J/mol×K	591.48	Joback Method
cpg	474.03	J/mol×K	625.93	Joback Method
cpg	491.78	J/mol×K	660.39	Joback Method
cpg	508.54	J/mol×K	694.85	Joback Method
cpg	524.33	J/mol×K	729.31	Joback Method
cpg	539.15	J/mol×K	763.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R130033&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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