

Diacetoxynorbornane

Inchi:	InChI=1S/C11H16O4/c1-6(12)14-10-5-8-3-4-9(10)11(8)15-7(2)13/h8-11H,3-5H2,1-2H3
InchiKey:	LNTSWTDQYLJUEX-UHFFFAOYSA-N
Formula:	C11H16O4
SMILES:	CC(=O)OC1CC2CCC1C2OC(C)=O
Mol. weight [g/mol]:	212.24
CAS:	17290-00-5

Physical Properties

Property code	Value	Unit	Source
gf	-332.12	kJ/mol	Joback Method
hf	-661.21	kJ/mol	Joback Method
hfus	26.13	kJ/mol	Joback Method
hvap	57.77	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.280		Crippen Method
mcvol	159.010	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
tb	612.07	K	Joback Method
tc	820.36	K	Joback Method
tf	381.93	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.35	J/molxK	612.07	Joback Method
cpg	457.89	J/molxK	646.78	Joback Method
cpg	473.47	J/molxK	681.50	Joback Method
cpg	488.12	J/molxK	716.21	Joback Method
cpg	501.88	J/molxK	750.93	Joback Method
cpg	514.75	J/molxK	785.64	Joback Method
cpg	526.78	J/molxK	820.36	Joback Method
dvisc	0.0021752	Paxs	381.93	Joback Method
dvisc	0.0018101	Paxs	420.29	Joback Method

dvisc	0.0015532	Paxs	458.64	Joback Method
dvisc	0.0013647	Paxs	497.00	Joback Method
dvisc	0.0012215	Paxs	535.36	Joback Method
dvisc	0.0011096	Paxs	573.71	Joback Method
dvisc	0.0010202	Paxs	612.07	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	415.50 ± 0.50	K	1.90	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17290005&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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