7,7-dimethyl-2-methoxy-norborn-2-ene

Inchi: InChI=1S/C10H16O/c1-10(2)7-4-5-8(10)9(6-7)11-3/h6-8H,4-5H2,1-3H3
InchiKey: APTDFJFBANRDGF-UHFFFAOYSA-N
Formula: C10H16O
SMILES: COC1=CC2CCC1C2(C)C
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	44.85	kJ/mol	Joback Method
hf	-201.30	kJ/mol	Joback Method
hfus	12.62	kJ/mol	Joback Method
hvap	39.76	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.583		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
ripol	1213.00		NIST Webbook
tb	468.08	K	Joback Method
tc	675.74	K	Joback Method
tf	289.99	K	Joback Method
vc	0.502	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.78	J/mol×K	468.08	Joback Method
cpg	318.09	J/mol×K	502.69	Joback Method
cpg	334.23	J/mol×K	537.30	Joback Method
cpg	349.30	J/mol×K	571.91	Joback Method
cpg	363.43	J/mol×K	606.52	Joback Method
cpg	376.74	J/mol×K	641.13	Joback Method
cpg	389.35	J/mol×K	675.74	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R330273&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume