Menthyl 5-methyl-bicyclo[2.2.1]hept-2-en-5-carboxylate

Inchi: InChI=1S/C19H30O2/c1-12(2)16-8-5-13(3)9-17(16)21-18(20)19(4)11-14-6-7-15(19)10-14

InchiKey: MZLJAEBIOKQGQF-GZAQDWSVSA-N

Formula: C19H30O2

SMILES: CC1CCC(C(C)C)C(OC(=O)C2(C)CC3C=CC2C3)C1

Mol. weight [g/mol]: 290.44

Physical Properties

Property code	Value	Unit	Source
gf	7.93	kJ/mol	Joback Method
hf	-479.81	kJ/mol	Joback Method
hfus	28.37	kJ/mol	Joback Method
hvap	65.30	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.593		Crippen Method
mcvol	249.130	ml/mol	McGowan Method
pc	1579.71	kPa	Joback Method
rinpol	1544.00		NIST Webbook
tb	732.66	K	Joback Method
tc	955.30	K	Joback Method
tf	412.73	K	Joback Method
vc	0.938	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	798.06	J/mol×K	732.66	Joback Method
cpg	822.08	J/mol×K	769.77	Joback Method
cpg	844.87	J/mol×K	806.87	Joback Method
cpg	866.58	J/mol×K	843.98	Joback Method
cpg	887.39	J/mol×K	881.09	Joback Method
cpg	907.47	J/mol×K	918.19	Joback Method
cpg	926.97	J/mol×K	955.30	Joback Method

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=R557458&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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