

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

Inchi:	InChI=1S/C18H28O2/c1-11(2)15-7-4-12(3)8-17(15)20-18(19)16-10-13-5-6-14(16)9-13/h5
InchiKey:	NUXWNOJUDXSANL-FRHPQPQWSA-N
Formula:	C18H28O2
SMILES:	CC1CCC(C(C)C)C(OC(=O)C2CC3C=CC2C3)C1
Mol. weight [g/mol]:	276.41

Physical Properties

Property code	Value	Unit	Source
gf	5.00	kJ/mol	Joback Method
hf	-474.41	kJ/mol	Joback Method
hfus	32.08	kJ/mol	Joback Method
hvap	64.22	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	4.203		Crippen Method
mcvol	235.040	ml/mol	McGowan Method
pc	1645.76	kPa	Joback Method
rinsol	1430.00		NIST Webbook
tb	709.54	K	Joback Method
tc	928.50	K	Joback Method
tf	377.56	K	Joback Method
vc	0.883	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	743.57	J/molxK	709.54	Joback Method
cpg	767.14	J/molxK	746.03	Joback Method
cpg	789.12	J/molxK	782.53	Joback Method
cpg	809.59	J/molxK	819.02	Joback Method
cpg	828.61	J/molxK	855.51	Joback Method
cpg	846.24	J/molxK	892.00	Joback Method
cpg	862.57	J/molxK	928.50	Joback Method
dvisc	0.0028881	Paxs	377.56	Joback Method
dvisc	0.0021451	Paxs	432.89	Joback Method

dvisc	0.0017043	Paxs	488.22	Joback Method
dvisc	0.0014191	Paxs	543.55	Joback Method
dvisc	0.0012222	Paxs	598.88	Joback Method
dvisc	0.0010796	Paxs	654.21	Joback Method
dvisc	0.0009723	Paxs	709.54	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R557463&Units=SI

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

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