Menth-1-en-9-yl tiglate, p-

Other names:	«alpha»-Terpinyl tiglate
Inchi:	InChI=1S/C15H24O2/c1-6-12(3)14(16)17-15(4,5)13-9-7-11(2)8-10-13/h6-7,13H,8-10H2,1
InchiKey:	XMZRVZZNEWGJSP-WUXMJOGZSA-N
Formula:	C15H24O2
SMILES:	CC=C(C)C(=O)OC(C)(C)C1CC=C(C)CC1
Mol. weight [g/mol]:	236.35

Physical Properties

Property code	Value	Unit	Source
gf	-39.21	kJ/mol	Joback Method
hf	-398.42	kJ/mol	Joback Method
hfus	21.54	kJ/mol	Joback Method
hvap	58.27	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	4.021		Crippen Method
mcvol	210.190	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
rinpol	1588.00		NIST Webbook
rinpol	1588.00		NIST Webbook
tb	643.39	K	Joback Method
tc	859.48	K	Joback Method
tf	335.01	K	Joback Method
vc	0.788	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.23	J/mol×K	643.39	Joback Method
cpg	594.08	J/mol×K	679.40	Joback Method
cpg	612.66	J/mol×K	715.42	Joback Method
cpg	630.04	J/mol×K	751.43	Joback Method
cpg	646.28	J/mol×K	787.45	Joback Method
cpg	661.44	J/mol×K	823.46	Joback Method
cpg	675.57	J/mol×K	859.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U383625&Units=SI
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

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