

trans-p-Menth-2-ene oxide

Inchi:	InChI=1S/C10H18O/c1-6(2)8-5-4-7(3)9-10(8)11-9/h6-10H,4-5H2,1-3H3/t7?,8-,9+,10-/m0
InchiKey:	DVDWHWVOVXBYPFH-UPBARMNASA-N
Formula:	C10H18O
SMILES:	CC(C)C1CCC(C)C2OC12
Mol. weight [g/mol]:	154.25

Physical Properties

Property code	Value	Unit	Source
gf	38.74	kJ/mol	Joback Method
hf	-288.25	kJ/mol	Joback Method
hfus	22.42	kJ/mol	Joback Method
hvap	41.36	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.456		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
ripol	1409.00		NIST Webbook
ripol	1409.00		NIST Webbook
tb	463.12	K	Joback Method
tc	663.84	K	Joback Method
tf	237.91	K	Joback Method
vc	0.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.51	J/mol×K	463.12	Joback Method
cpg	339.95	J/mol×K	496.57	Joback Method
cpg	358.31	J/mol×K	530.03	Joback Method
cpg	375.65	J/mol×K	563.48	Joback Method
cpg	392.01	J/mol×K	596.93	Joback Method
cpg	407.45	J/mol×K	630.38	Joback Method

cpg	422.00	J/mol×K	663.84	Joback Method
dvisc	0.0010863	Pa×s	237.91	Joback Method
dvisc	0.0009670	Pa×s	275.45	Joback Method
dvisc	0.0008852	Pa×s	312.98	Joback Method
dvisc	0.0008258	Pa×s	350.51	Joback Method
dvisc	0.0007808	Pa×s	388.05	Joback Method
dvisc	0.0007456	Pa×s	425.59	Joback Method
dvisc	0.0007173	Pa×s	463.12	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R325276&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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