p-Menth-2-en-8-ol

Other names: p-2-menthen-8-ol
Inchi: InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h4,6,8-9,11H,5,7H2,1-3H3
InchiKey: JQHCVOGXBCGGSQ-UHFFFAOYSA-N
Formula: C10H18O
SMILES: CC1C=CC(C(C)(C)O)CC1
Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
gf	-53.96	kJ/mol	Joback Method
hf	-318.95	kJ/mol	Joback Method
hfus	12.46	kJ/mol	Joback Method
hvap	53.65	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2893.62	kPa	Joback Method
rinpol	1208.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1208.00		NIST Webbook
ripol	1561.00		NIST Webbook
ripol	1618.00		NIST Webbook
tb	531.19	K	Joback Method
tc	730.01	K	Joback Method
tf	269.60	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.11	J/mol×K	531.19	Joback Method
cpg	370.85	J/mol×K	564.33	Joback Method
cpg	386.64	J/mol×K	597.46	Joback Method
cpg	401.50	J/mol×K	630.60	Joback Method

cpg	415.47	J/mol×K	663.74	Joback Method
cpg	428.59	J/mol×K	696.88	Joback Method
cpg	440.90	J/mol×K	730.01	Joback Method
dvisc	0.0312164	Pa×s	269.60	Joback Method
dvisc	0.0066563	Pa×s	313.20	Joback Method
dvisc	0.0020706	Pa×s	356.80	Joback Method
dvisc	0.0008306	Pa×s	400.40	Joback Method
dvisc	0.0003987	Pa×s	443.99	Joback Method
dvisc	0.0002182	Pa×s	487.59	Joback Method
dvisc	0.0001318	Pa×s	531.19	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=R239115&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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