p-Menth-1(7)-en-9-ol

Other names: 1(7)-p-Menthen-9-ol
Inchi: InChI=1S/C10H18O/c1-8-3-5-10(6-4-8)9(2)7-11/h9-11H,1,3-7H2,2H3
InchiKey: HXSUWRNHJVTUAL-UHFFFAOYSA-N
Formula: C10H18O
SMILES: C=C1CCC(C(C)CO)CC1
Mol. weight [g/mol]: 154.25
CAS: 29548-16-1

Physical Properties

Property code	Value	Unit	Source
gf	-28.41	kJ/mol	Joback Method
hf	-268.68	kJ/mol	Joback Method
hfus	12.90	kJ/mol	Joback Method
hvap	54.73	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.361		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
ripol	1881.00		NIST Webbook
ripol	1897.00		NIST Webbook
ripol	1889.00		NIST Webbook
tb	538.65	K	Joback Method
tc	730.14	K	Joback Method
tf	269.34	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.72	J/mol×K	538.65	Joback Method
cpg	365.25	J/mol×K	570.57	Joback Method
cpg	380.02	J/mol×K	602.48	Joback Method
cpg	394.05	J/mol×K	634.40	Joback Method
cpg	407.35	J/mol×K	666.31	Joback Method

cpg	419.94	J/mol×K	698.23	Joback Method
cpg	431.84	J/mol×K	730.14	Joback Method
dvisc	0.0317299	Pa×s	269.34	Joback Method
dvisc	0.0065282	Pa×s	314.23	Joback Method
dvisc	0.0019942	Pa×s	359.11	Joback Method
dvisc	0.0007929	Pa×s	404.00	Joback Method
dvisc	0.0003791	Pa×s	448.88	Joback Method
dvisc	0.0002073	Pa×s	493.76	Joback Method
dvisc	0.0001253	Pa×s	538.65	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C29548161&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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