p-Menth-1-en-7,8-diol

Other names: p-1-Menthen-7,8-diol
7-Hydroxyterpineol
Inchi: InChI=1S/C10H18O2/c1-10(2,12)9-5-3-8(7-11)4-6-9/h3,9,11-12H,4-7H2,1-2H3
InchiKey: XYKGEKWHBMLSGS-UHFFFAOYSA-N
Formula: C10H18O2
SMILES: CC(C)(O)C1CC=C(CO)CC1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-192.70	kJ/mol	Joback Method
hf	-462.31	kJ/mol	Joback Method
hfus	15.09	kJ/mol	Joback Method
hvap	71.30	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.476		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
rinpol	1469.00		NIST Webbook
rinpol	1431.00		NIST Webbook
rinpol	1502.00		NIST Webbook
rinpol	1469.00		NIST Webbook
rinpol	1502.00		NIST Webbook
rinpol	1431.00		NIST Webbook
ripol	2517.00		NIST Webbook
ripol	2519.00		NIST Webbook
ripol	2528.00		NIST Webbook
ripol	2526.00		NIST Webbook
ripol	2550.00		NIST Webbook
ripol	2528.00		NIST Webbook
ripol	2526.00		NIST Webbook
ripol	2528.00		NIST Webbook
tb	633.02	K	Joback Method
tc	821.85	K	Joback Method
tf	347.18	K	Joback Method
vc	0.541	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.62	J/mol×K	633.02	Joback Method
cpg	470.54	J/mol×K	790.38	Joback Method
cpg	460.32	J/mol×K	758.91	Joback Method
cpg	449.45	J/mol×K	727.44	Joback Method
cpg	437.90	J/mol×K	695.96	Joback Method
cpg	425.64	J/mol×K	664.49	Joback Method
cpg	480.16	J/mol×K	821.85	Joback Method
dvisc	0.0000228	Pa×s	633.02	Joback Method
dvisc	0.0000429	Pa×s	585.38	Joback Method
dvisc	0.0000903	Pa×s	537.74	Joback Method
dvisc	0.0002192	Pa×s	490.10	Joback Method
dvisc	0.0006446	Pa×s	442.46	Joback Method
dvisc	0.0024586	Pa×s	394.82	Joback Method
dvisc	0.0135407	Pa×s	347.18	Joback Method

Sources

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=R184862&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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