

p-Menth-1-en-3,8-diol, cis

Other names:	cis-p-menth-1-ene-3,8-diol
Inchi:	InChI=1S/C10H18O2/c1-7-4-5-8(9(11)6-7)10(2,3)12/h6,8-9,11-12H,4-5H2,1-3H3/t8-,9+/m
InchiKey:	MUTBSGZZTDPVPZ-DTWKUNHWSA-N
Formula:	C10H18O2
SMILES:	CC1=CC(O)C(C(C)(C)O)CC1
Mol. weight [g/mol]:	170.25

Physical Properties

Property code	Value	Unit	Source
gf	-200.41	kJ/mol	Joback Method
hf	-482.65	kJ/mol	Joback Method
hfus	16.16	kJ/mol	Joback Method
hvap	70.99	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.475		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
rinpol	1362.00		NIST Webbook
rinpol	1351.00		NIST Webbook
tb	628.35	K	Joback Method
tc	816.99	K	Joback Method
tf	342.94	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.80	J/molxK	628.35	Joback Method
cpg	428.23	J/molxK	659.79	Joback Method
cpg	440.89	J/molxK	691.23	Joback Method
cpg	452.84	J/molxK	722.67	Joback Method
cpg	464.09	J/molxK	754.11	Joback Method
cpg	474.67	J/molxK	785.55	Joback Method
cpg	484.62	J/molxK	816.99	Joback Method

dvisc	0.0132934	Paxs	342.94	Joback Method
dvisc	0.0025385	Paxs	390.51	Joback Method
dvisc	0.0006945	Paxs	438.08	Joback Method
dvisc	0.0002449	Paxs	485.64	Joback Method
dvisc	0.0001040	Paxs	533.21	Joback Method
dvisc	0.0000508	Paxs	580.78	Joback Method
dvisc	0.0000277	Paxs	628.35	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=R31828&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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