2,6-Dimethyl-3,7-octadien-1,6-diol

Other names: 2,6-Dimethyl-3,7-octadiem-1,6-diol
Inchi: InChI=1S/C10H18O2/c1-4-10(3,12)7-5-6-9(2)8-11/h4-6,9,11-12H,1,7-8H2,2-3H3/b6-5+
InchiKey: JFNPIHORQHWCBL-AATRIKPKSA-N
Formula: C10H18O2
SMILES: C=CC(C)(O)CC=CC(C)CO
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-71.86	kJ/mol	Joback Method
hf	-325.57	kJ/mol	Joback Method
hfus	17.82	kJ/mol	Joback Method
hvap	68.82	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	1.498		Crippen Method
mcvol	154.900	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
ripol	1995.00		NIST Webbook
ripol	1995.00		NIST Webbook
ripol	1995.00		NIST Webbook
ripol	1995.00		NIST Webbook
tb	609.73	K	Joback Method
tc	783.01	K	Joback Method
tf	304.68	K	Joback Method
vc	0.578	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.43	J/mol×K	609.73	Joback Method
cpg	414.54	J/mol×K	638.61	Joback Method
cpg	425.05	J/mol×K	667.49	Joback Method
cpg	435.01	J/mol×K	696.37	Joback Method
cpg	444.44	J/mol×K	725.25	Joback Method

cpg	453.40	J/mol×K	754.13	Joback Method
cpg	461.90	J/mol×K	783.01	Joback Method
dvisc	0.0628660	Pa×s	304.68	Joback Method
dvisc	0.0063611	Pa×s	355.52	Joback Method
dvisc	0.0011418	Pa×s	406.36	Joback Method
dvisc	0.0003003	Pa×s	457.21	Joback Method
dvisc	0.0001032	Pa×s	508.05	Joback Method
dvisc	0.0000431	Pa×s	558.89	Joback Method
dvisc	0.0000208	Pa×s	609.73	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=R302793&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume