5,7-Octadien-2-ol, 2,6-dimethyl-

Other names: 2,6-Dimethyl-5,7-octadien-2-ol
Ocimenol
Inchi: InChI=1S/C10H18O/c1-5-9(2)7-6-8-10(3,4)11/h5,7,11H,1,6,8H2,2-4H3/b9-7+
InchiKey: IJFKZRMIRAVXRK-VQHVLOKHSA-N
Formula: C10H18O
SMILES: C=CC(C)=CCCC(C)(C)O
Mol. weight [g/mol]: 154.25
CAS: 5986-38-9

Physical Properties

Property code	Value	Unit	Source
gf	58.85	kJ/mol	Joback Method
hf	-177.85	kJ/mol	Joback Method
hfus	15.94	kJ/mol	Joback Method
hvap	52.61	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.670		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1155.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1179.00		NIST Webbook
rinpol	1139.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1179.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1174.00		NIST Webbook
ripol	1640.00		NIST Webbook
ripol	1688.00		NIST Webbook
ripol	1673.00		NIST Webbook
ripol	1687.00		NIST Webbook
ripol	1688.00		NIST Webbook
ripol	1688.00		NIST Webbook

tb	517.87	K	Joback Method
tc	697.57	K	Joback Method
tf	244.90	K	Joback Method
vc	0.566	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.03	J/mol×K	517.87	Joback Method
cpg	360.38	J/mol×K	547.82	Joback Method
cpg	372.99	J/mol×K	577.77	Joback Method
cpg	384.91	J/mol×K	607.72	Joback Method
cpg	396.18	J/mol×K	637.67	Joback Method
cpg	406.83	J/mol×K	667.62	Joback Method
cpg	416.91	J/mol×K	697.57	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.42607e+01
Coeff. B	-4.10698e+03
Coeff. C	-7.48620e+01
Temperature range (K), min.	368.78
Temperature range (K), max.	533.78

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=C5986389&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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
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
pvap:	Vapor 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