2-Methyl-6-methylene-2,7-octadien-4-ol

Other names: 2-methyl-6-methyleneocta-2,7-dien-4-ol
Inchi: InChI=1S/C10H16O/c1-5-9(4)7-10(11)6-8(2)3/h5-6,10-11H,1,4,7H2,2-3H3
InchiKey: NHMKYUHMPXBMFI-UHFFFAOYSA-N
Formula: C10H16O
SMILES: C=CC(=C)CC(O)C=C(C)C
Mol. weight [g/mol]: 152.23
CAS: 14434-41-4

Physical Properties

Property code	Value	Unit	Source
gf	132.86	kJ/mol	Joback Method
hf	-58.74	kJ/mol	Joback Method
hfus	17.24	kJ/mol	Joback Method
hvap	52.92	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	2.446		Crippen Method
mcvol	144.730	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
rinpol	1150.20		NIST Webbook
rinpol	1147.00		NIST Webbook
tb	517.22	K	Joback Method
tc	696.85	K	Joback Method
tf	211.76	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.42	J/mol×K	517.22	Joback Method
cpg	337.80	J/mol×K	547.16	Joback Method
cpg	349.55	J/mol×K	577.10	Joback Method
cpg	360.70	J/mol×K	607.04	Joback Method
cpg	371.27	J/mol×K	636.98	Joback Method
cpg	381.31	J/mol×K	666.91	Joback Method

cpg	390.84	J/mol×K	696.85	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=C14434414&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume