dehydro-ar-«gamma»-himachalene

Other names: «gamma»-Dehydro-ar-himachalene
Inchi: InChI=1S/C15H20/c1-11-7-8-13-12(2)6-5-9-15(3,4)14(13)10-11/h6-8,10H,5,9H2,1-4H3
InchiKey: QUJMJHNEMNHELG-UHFFFAOYSA-N
Formula: C15H20
SMILES: CC1=CCCC(C)(C)c2cc(C)ccc21
Mol. weight [g/mol]: 200.32
CAS: 51766-65-5

Physical Properties

Property code	Value	Unit	Source
gf	219.96	kJ/mol	Joback Method
hf	-17.31	kJ/mol	Joback Method
hfus	16.34	kJ/mol	Joback Method
hvap	52.64	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.470		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2244.00	kPa	Joback Method
rinpol	1551.00		NIST Webbook
rinpol	1551.00		NIST Webbook
rinpol	1537.60		NIST Webbook
tb	598.90	K	Joback Method
tc	832.36	K	Joback Method
tf	358.35	K	Joback Method
vc	0.693	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.71	J/mol×K	598.90	Joback Method
cpg	480.03	J/mol×K	637.81	Joback Method
cpg	498.17	J/mol×K	676.72	Joback Method
cpg	515.30	J/mol×K	715.63	Joback Method
cpg	531.57	J/mol×K	754.54	Joback Method

cpg	547.15	J/mol×K	793.45	Joback Method
cpg	562.19	J/mol×K	832.36	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=C51766655&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
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