«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/h5-8,10,12H,9H2,1-4H3
InchiKey: KSQQTNWAKSYGCR-UHFFFAOYSA-N
Formula: C15H20
SMILES: Cc1ccc2c(c1)C(C)(C)CC=CC2C
Mol. weight [g/mol]: 200.32

Physical Properties

Property code	Value	Unit	Source
gf	221.88	kJ/mol	Joback Method
hf	-26.18	kJ/mol	Joback Method
hfus	17.80	kJ/mol	Joback Method
hvap	51.67	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.336		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2206.22	kPa	Joback Method
rinpol	1517.00		NIST Webbook
rinpol	1527.00		NIST Webbook
rinpol	1517.00		NIST Webbook
ripol	1915.00		NIST Webbook
tb	589.25	K	Joback Method
tc	821.74	K	Joback Method
tf	341.59	K	Joback Method
vc	0.692	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.08	J/mol×K	589.25	Joback Method
cpg	482.23	J/mol×K	628.00	Joback Method
cpg	501.12	J/mol×K	666.75	Joback Method
cpg	518.90	J/mol×K	705.49	Joback Method
cpg	535.73	J/mol×K	744.24	Joback Method
cpg	551.78	J/mol×K	782.99	Joback Method

cpg	567.20	J/mol×K	821.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R206269&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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