«epsilon»-Bulgarene

Inchi: InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h10,13-15H,3-9H2,1-2H3
InchiKey: NOLWRMQDWRAODO-ZNMIVQPWSA-N
Formula: C15H24
SMILES: C=C1CCC2C(=C)CCC(C(C)C)C2C1
Mol. weight [g/mol]: 204.35

Physical Properties

Property code	Value	Unit	Source
gf	244.53	kJ/mol	Joback Method
hf	-89.11	kJ/mol	Joback Method
hfus	17.71	kJ/mol	Joback Method
hvap	49.12	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.581		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
rinpol	1514.00		NIST Webbook
rinpol	1514.00		NIST Webbook
tb	566.37	K	Joback Method
tc	779.32	K	Joback Method
tf	288.73	K	Joback Method
vc	0.719	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.92	J/mol×K	566.37	Joback Method
cpg	603.18	J/mol×K	743.83	Joback Method
cpg	584.99	J/mol×K	708.34	Joback Method
cpg	565.61	J/mol×K	672.85	Joback Method
cpg	545.00	J/mol×K	637.35	Joback Method
cpg	523.12	J/mol×K	601.86	Joback Method
cpg	620.22	J/mol×K	779.32	Joback Method
dvisc	0.0004074	Pa×s	566.37	Joback Method

dvisc	0.0004790	Pa×s	520.10	Joback Method
dvisc	0.0005812	Pa×s	473.82	Joback Method
dvisc	0.0007353	Pa×s	427.55	Joback Method
dvisc	0.0009850	Pa×s	381.28	Joback Method
dvisc	0.0014305	Pa×s	335.00	Joback Method
dvisc	0.0023414	Pa×s	288.73	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=R206947&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume