1«alpha»,4«alpha»,7«alpha»-Azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methyl

Inchi: InChI=1S/C15H26/c1-10(2)13-7-5-11(3)14-8-6-12(4)15(14)9-13/h10-13H,5-9H2,1-4H3/t1

InchiKey: XURCUMFVQKJMJP-UPJWGTAASA-N

Formula: C15H26

SMILES: CC1CCC(C(C)C)CC2=C1CCC2C

Mol. weight [g/mol]: 206.37

Physical Properties

Property code	Value	Unit	Source
gf	149.07	kJ/mol	Joback Method
hf	-222.75	kJ/mol	Joback Method
hfus	20.47	kJ/mol	Joback Method
hvap	50.42	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	4.805		Crippen Method
mcvol	196.190	ml/mol	McGowan Method
pc	1862.72	kPa	Joback Method
ripol	1592.00		NIST Webbook
ripol	1592.00		NIST Webbook
tb	577.17	K	Joback Method
tc	790.56	K	Joback Method
tf	287.17	K	Joback Method
vc	0.737	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.34	J/mol×K	577.17	Joback Method
cpg	547.18	J/mol×K	612.74	Joback Method
cpg	569.68	J/mol×K	648.30	Joback Method
cpg	590.87	J/mol×K	683.87	Joback Method
cpg	610.82	J/mol×K	719.43	Joback Method
cpg	629.55	J/mol×K	755.00	Joback Method
cpg	647.13	J/mol×K	790.56	Joback Method
dvisc	0.0024375	Pa×s	287.17	Joback Method

dvisc	0.0013783	Pa×s	335.50	Joback Method
dvisc	0.0008997	Pa×s	383.84	Joback Method
dvisc	0.0006461	Pa×s	432.17	Joback Method
dvisc	0.0004959	Pa×s	480.50	Joback Method
dvisc	0.0003995	Pa×s	528.84	Joback Method
dvisc	0.0003337	Pa×s	577.17	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R643653&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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume