cis-3-Isopropylhexa-1,4-diene

Inchi: InChI=1S/C9H16/c1-5-7-9(6-2)8(3)4/h5-9H,2H2,1,3-4H3/b7-5-
InchiKey: WUHBPVXKLJAZIG-ALCCZGGFSA-N
Formula: C9H16
SMILES: C=CC(C=CC)C(C)C
Mol. weight [g/mol]: 124.22

Physical Properties

Property code	Value	Unit	Source
gf	188.08	kJ/mol	Joback Method
hf	3.00	kJ/mol	Joback Method
hfus	10.94	kJ/mol	Joback Method
hvap	34.14	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	3.021		Crippen Method
mcvol	129.070	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
ripol	947.00		NIST Webbook
ripol	947.00		NIST Webbook
tb	405.28	K	Joback Method
tc	588.15	K	Joback Method
tf	154.35	K	Joback Method
vc	0.488	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.58	J/mol×K	405.28	Joback Method
cpg	307.37	J/mol×K	557.67	Joback Method
cpg	295.68	J/mol×K	527.20	Joback Method
cpg	283.38	J/mol×K	496.72	Joback Method
cpg	270.45	J/mol×K	466.24	Joback Method
cpg	256.86	J/mol×K	435.76	Joback Method
cpg	318.49	J/mol×K	588.15	Joback Method
dvisc	0.0001834	Pa×s	405.28	Joback Method

dvisc	0.0002539	Pa×s	363.46	Joback Method
dvisc	0.0003823	Pa×s	321.64	Joback Method
dvisc	0.0006508	Pa×s	279.81	Joback Method
dvisc	0.0013354	Pa×s	237.99	Joback Method
dvisc	0.0037231	Pa×s	196.17	Joback Method
dvisc	0.0180922	Pa×s	154.35	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R237540&Units=SI

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