Guaia-3,7-diene

Inchi: InChI=1S/C16H26/c1-11-6-8-13(16(3,4)5)10-15-12(2)7-9-14(11)15/h7-8,11,14-15H,6,9-1
InchiKey: QAUZVGPDSDIYTH-UHFFFAOYSA-N
Formula: C16H26
SMILES: CC1=CCC2C(C)CC=C(C(C)(C)C)CC12
Mol. weight [g/mol]: 218.38

Physical Properties

Property code	Value	Unit	Source
gf	192.73	kJ/mol	Joback Method
hf	-189.08	kJ/mol	Joback Method
hfus	20.39	kJ/mol	Joback Method
hvap	52.03	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.971		Crippen Method
mcvol	205.980	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
rinpol	1474.00		NIST Webbook
ripol	1811.00		NIST Webbook
tb	596.42	K	Joback Method
tc	816.40	K	Joback Method
tf	316.62	K	Joback Method
vc	0.773	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.25	J/mol×K	596.42	Joback Method
cpg	583.08	J/mol×K	633.08	Joback Method
cpg	605.39	J/mol×K	669.75	Joback Method
cpg	626.26	J/mol×K	706.41	Joback Method
cpg	645.78	J/mol×K	743.07	Joback Method
cpg	664.01	J/mol×K	779.74	Joback Method
cpg	681.03	J/mol×K	816.40	Joback Method
dvisc	0.0022427	Pa×s	316.62	Joback Method

dvisc	0.0013038	Pa×s	363.25	Joback Method
dvisc	0.0008576	Pa×s	409.89	Joback Method
dvisc	0.0006145	Pa×s	456.52	Joback Method
dvisc	0.0004684	Pa×s	503.15	Joback Method
dvisc	0.0003738	Pa×s	549.79	Joback Method
dvisc	0.0003090	Pa×s	596.42	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=R327009&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume