2,6-Dodecadiene, 2,6-dimethyl-

Other names: 2,6-dimethyl-2,6-dodecadiene
Inchi: InChI=1S/C14H26/c1-5-6-7-8-11-14(4)12-9-10-13(2)3/h10-11H,5-9,12H2,1-4H3/b14-11+
InchiKey: GRAVUUJRABWEIL-SDNWHVSQSA-N
Formula: C14H26
SMILES: CCCCCC=C(C)CCC=C(C)C
Mol. weight [g/mol]: 194.36

Physical Properties

Property code	Value	Unit	Source
gf	210.34	kJ/mol	Joback Method
hf	-117.43	kJ/mol	Joback Method
hfus	29.80	kJ/mol	Joback Method
hvap	46.83	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.259		Crippen Method
mcvol	199.520	ml/mol	McGowan Method
pc	1668.70	kPa	Joback Method
rinpol	1314.00		NIST Webbook
rinpol	1314.00		NIST Webbook
tb	527.80	K	Joback Method
tc	706.21	K	Joback Method
tf	209.46	K	Joback Method
vc	0.781	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.26	J/mol×K	527.80	Joback Method
cpg	489.41	J/mol×K	557.53	Joback Method
cpg	506.69	J/mol×K	587.27	Joback Method
cpg	523.17	J/mol×K	617.00	Joback Method
cpg	538.86	J/mol×K	646.74	Joback Method
cpg	553.81	J/mol×K	676.47	Joback Method
cpg	568.06	J/mol×K	706.21	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=U164676&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
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