1,5,9-Decatriene, 2,3,5,8-tetramethyl-

Other names: 2,3,5,8-Tetramethyl-1,5,9-decatriene
Inchi: InChI=1S/C14H24/c1-7-12(4)8-9-13(5)10-14(6)11(2)3/h7,9,12,14H,1-2,8,10H2,3-6H3/b1
InchiKey: XOZORGGLLHZDMW-UKTHLTGXSA-N
Formula: C14H24
SMILES: C=CC(C)CC=C(C)CC(C)C(=C)C
Mol. weight [g/mol]: 192.34
CAS: 230646-72-7

Physical Properties

Property code	Value	Unit	Source
gf	300.92	kJ/mol	Joback Method
hf	5.65	kJ/mol	Joback Method
hfus	19.99	kJ/mol	Joback Method
hvap	44.76	kJ/mol	Joback Method
log10ws	-4.76		Crippen Method
logp	4.747		Crippen Method
mcvol	195.220	ml/mol	McGowan Method
pc	1736.11	kPa	Joback Method
ripol	1485.00		NIST Webbook
tb	516.12	K	Joback Method
tc	700.94	K	Joback Method
tf	181.02	K	Joback Method
vc	0.751	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.39	J/mol×K	516.12	Joback Method
cpg	468.73	J/mol×K	546.92	Joback Method
cpg	486.15	J/mol×K	577.73	Joback Method
cpg	502.70	J/mol×K	608.53	Joback Method
cpg	518.40	J/mol×K	639.34	Joback Method
cpg	533.32	J/mol×K	670.14	Joback Method
cpg	547.48	J/mol×K	700.94	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=C230646727&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume