(E)-2,6-Dimethyl-1,3,7-nonatriene

Inchi: InChI=1S/C11H18/c1-5-7-11(4)9-6-8-10(2)3/h5-8,11H,2,9H2,1,3-4H3/b7-5+,8-6+
InchiKey: JBGDWLUXDXLDPL-KQQUZDAGSA-N
Formula: C11H18
SMILES: C=C(C)C=CCC(C)C=CC
Mol. weight [g/mol]: 150.26

Physical Properties

Property code	Value	Unit	Source
gf	279.03	kJ/mol	Joback Method
hf	74.43	kJ/mol	Joback Method
hfus	18.54	kJ/mol	Joback Method
hvap	39.02	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	3.721		Crippen Method
mcvol	152.950	ml/mol	McGowan Method
pc	2235.52	kPa	Joback Method
ripol	1319.00		NIST Webbook
ripol	1319.00		NIST Webbook
tb	455.52	K	Joback Method
tc	643.66	K	Joback Method
tf	172.85	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.83	J/mol×K	455.52	Joback Method
cpg	327.63	J/mol×K	486.88	Joback Method
cpg	342.58	J/mol×K	518.23	Joback Method
cpg	356.74	J/mol×K	549.59	Joback Method
cpg	370.13	J/mol×K	580.94	Joback Method
cpg	382.80	J/mol×K	612.30	Joback Method
cpg	394.80	J/mol×K	643.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R241564&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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