Nonadecane, 2,6,10,14-tetramethyl-

Other names: 2,6,10,14-Tetramethylnonadecane
Inchi: InChI=1S/C23H48/c1-7-8-9-14-21(4)16-11-18-23(6)19-12-17-22(5)15-10-13-20(2)3/h20-2
InchiKey: FTURMMDCPOYSAQ-UHFFFAOYSA-N
Formula: C23H48
SMILES: CCCCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 324.63
CAS: 55124-80-6

Physical Properties

Property code	Value	Unit	Source
gf	133.02	kJ/mol	Joback Method
hf	-539.17	kJ/mol	Joback Method
hfus	41.23	kJ/mol	Joback Method
hvap	65.24	kJ/mol	Joback Method
log10ws	-8.48		Crippen Method
logp	8.642		Crippen Method
mcvol	334.930	ml/mol	McGowan Method
pc	868.11	kPa	Joback Method
rinpol	2052.00		NIST Webbook
rinpol	2050.00		NIST Webbook
rinpol	2050.00		NIST Webbook
rinpol	2051.00		NIST Webbook
rinpol	2054.00		NIST Webbook
rinpol	2052.00		NIST Webbook
rinpol	2052.00		NIST Webbook
rinpol	2050.00		NIST Webbook
rinpol	2020.00		NIST Webbook
rinpol	2055.00		NIST Webbook
rinpol	2076.00		NIST Webbook
rinpol	2079.00		NIST Webbook
tb	723.88	K	Joback Method
tc	894.44	K	Joback Method
tf	288.97	K	Joback Method
vc	1.300	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.80	J/mol×K	723.88	Joback Method
cpg	1048.75	J/mol×K	752.31	Joback Method
cpg	1070.65	J/mol×K	780.73	Joback Method
cpg	1091.54	J/mol×K	809.16	Joback Method
cpg	1111.44	J/mol×K	837.59	Joback Method
cpg	1130.40	J/mol×K	866.02	Joback Method
cpg	1148.44	J/mol×K	894.44	Joback Method
dvisc	0.0113334	Pa×s	288.97	Joback Method
dvisc	0.0018302	Pa×s	361.46	Joback Method
dvisc	0.0005435	Pa×s	433.94	Joback Method
dvisc	0.0002285	Pa×s	506.43	Joback Method
dvisc	0.0001193	Pa×s	578.91	Joback Method
dvisc	0.0000720	Pa×s	651.39	Joback Method
dvisc	0.0000481	Pa×s	723.88	Joback Method

Sources

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=C55124806&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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