

1-Heptadecene, 3,8,12,16-tetramethyl

Inchi:	InChI=1S/C21H42/c1-7-19(4)13-8-9-14-20(5)16-11-17-21(6)15-10-12-18(2)3/h7,18-21H,
InchiKey:	PZPVMZPLBITKII-UHFFFAOYSA-N
Formula:	C21H42
SMILES:	C=CC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	294.56

Physical Properties

Property code	Value	Unit	Source
gf	204.02	kJ/mol	Joback Method
hf	-372.46	kJ/mol	Joback Method
hfus	34.77	kJ/mol	Joback Method
hvap	60.12	kJ/mol	Joback Method
log10ws	-7.50		Crippen Method
logp	7.638		Crippen Method
mvol	302.450	ml/mol	McGowan Method
pc	1001.44	kPa	Joback Method
rmpol	1889.00		NIST Webbook
tb	674.80	K	Joback Method
tc	844.49	K	Joback Method
tf	264.67	K	Joback Method
vc	1.169	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.83	J/molxK	674.80	Joback Method
cpg	977.71	J/molxK	816.21	Joback Method
cpg	959.58	J/molxK	787.93	Joback Method
cpg	940.56	J/molxK	759.64	Joback Method
cpg	920.61	J/molxK	731.36	Joback Method
cpg	899.72	J/molxK	703.08	Joback Method
cpg	995.00	J/molxK	844.49	Joback Method
dvisc	0.0000666	Paxs	674.80	Joback Method
dvisc	0.0000990	Paxs	606.44	Joback Method

dvisc	0.0001628	Paxs	538.09	Joback Method
dvisc	0.0003094	Paxs	469.74	Joback Method
dvisc	0.0007317	Paxs	401.38	Joback Method
dvisc	0.0024636	Paxs	333.02	Joback Method
dvisc	0.0155276	Paxs	264.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R46904&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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