

(7Z,9E)-2-methyl-7,9-octadecadiene

Inchi:	InChI=1S/C19H36/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(2)3/h11-14,19H,4-10,
InchiKey:	RFMGIWIKGFYQFJ-WCYNZMGESA-N
Formula:	C19H36
SMILES:	CCCCCCCC=CC=CCCCC(C)C
Mol. weight [g/mol]:	264.49

Physical Properties

Property code	Value	Unit	Source
gf	267.10	kJ/mol	Joback Method
hf	-206.33	kJ/mol	Joback Method
hfus	41.85	kJ/mol	Joback Method
hvap	57.42	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	7.066		Crippen Method
mcvol	269.970	ml/mol	McGowan Method
pc	1164.84	kPa	Joback Method
rinpol	1884.00		NIST Webbook
ripol	2002.00		NIST Webbook
tb	642.00	K	Joback Method
tc	812.85	K	Joback Method
tf	278.73	K	Joback Method
vc	1.054	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.54	J/mol×K	642.00	Joback Method
cpg	761.61	J/mol×K	670.48	Joback Method
cpg	780.78	J/mol×K	698.95	Joback Method
cpg	799.07	J/mol×K	727.43	Joback Method
cpg	816.55	J/mol×K	755.90	Joback Method
cpg	833.26	J/mol×K	784.38	Joback Method
cpg	849.22	J/mol×K	812.85	Joback Method
dvisc	0.0052283	Paxs	278.73	Joback Method

dvisc	0.0013718	Paxs	339.28	Joback Method
dvisc	0.0005398	Paxs	399.82	Joback Method
dvisc	0.0002714	Paxs	460.37	Joback Method
dvisc	0.0001602	Paxs	520.91	Joback Method
dvisc	0.0001055	Paxs	581.45	Joback Method
dvisc	0.0000751	Paxs	642.00	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=R413873&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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