

cis-4,7,10,13-nonadecatetraene

Inchi:	InChI=1S/C19H32/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h7,9,12-15,18-19H
InchiKey:	KKTQCVJMEADYPN-OLRBJXQPSA-N
Formula:	C19H32
SMILES:	CCCC=CCC=CCC=CCC=CCCCC
Mol. weight [g/mol]:	260.46

Physical Properties

Property code	Value	Unit	Source
gf	429.98	kJ/mol	Joback Method
hf	33.39	kJ/mol	Joback Method
hfus	45.77	kJ/mol	Joback Method
hvap	57.72	kJ/mol	Joback Method
log10ws	-7.19		Crippen Method
logp	6.762		Crippen Method
mcvol	261.370	ml/mol	McGowan Method
pc	1245.09	kPa	Joback Method
ripol	1814.00		NIST Webbook
ripol	2070.00		NIST Webbook
ripol	2070.00		NIST Webbook
tb	650.76	K	Joback Method
tc	830.00	K	Joback Method
tf	283.57	K	Joback Method
vc	1.020	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.95	J/molxK	650.76	Joback Method
cpg	718.95	J/molxK	680.63	Joback Method
cpg	737.03	J/molxK	710.51	Joback Method
cpg	754.24	J/molxK	740.38	Joback Method
cpg	770.65	J/molxK	770.26	Joback Method
cpg	786.33	J/molxK	800.13	Joback Method
cpg	801.35	J/molxK	830.00	Joback Method

dvisc	0.0032278	Paxs	283.57	Joback Method
dvisc	0.0009204	Paxs	344.77	Joback Method
dvisc	0.0003832	Paxs	405.97	Joback Method
dvisc	0.0002007	Paxs	467.16	Joback Method
dvisc	0.0001221	Paxs	528.36	Joback Method
dvisc	0.0000823	Paxs	589.56	Joback Method
dvisc	0.0000598	Paxs	650.76	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=R485719&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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