

cis-3,6,9,12,15-nonadecapentaene

Inchi:	InChI=1S/C19H30/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h5,7-8,10-11,13-1
InchiKey:	IOOIMZXQBJSUDS-YKBODEMXSA-N
Formula:	C19H30
SMILES:	CCC=CCC=CCC=CCC=CCC=CCCC
Mol. weight [g/mol]:	258.44

Physical Properties

Property code	Value	Unit	Source
gf	510.20	kJ/mol	Joback Method
hf	150.61	kJ/mol	Joback Method
hfus	45.98	kJ/mol	Joback Method
hvap	57.68	kJ/mol	Joback Method
log10ws	-7.04		Crippen Method
logp	6.538		Crippen Method
mcvol	257.070	ml/mol	McGowan Method
pc	1292.07	kPa	Joback Method
rinpol	1810.00		NIST Webbook
ripol	2125.00		NIST Webbook
ripol	2125.00		NIST Webbook
tb	654.92	K	Joback Method
tc	840.12	K	Joback Method
tf	278.49	K	Joback Method
vc	1.000	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.95	J/molxK	654.92	Joback Method
cpg	697.54	J/molxK	685.79	Joback Method
cpg	715.19	J/molxK	716.65	Joback Method
cpg	731.97	J/molxK	747.52	Joback Method
cpg	747.95	J/molxK	778.39	Joback Method
cpg	763.23	J/molxK	809.25	Joback Method
cpg	777.87	J/molxK	840.12	Joback Method

dvisc	0.0030700	Paxs	278.49	Joback Method
dvisc	0.0008303	Paxs	341.23	Joback Method
dvisc	0.0003371	Paxs	403.97	Joback Method
dvisc	0.0001744	Paxs	466.71	Joback Method
dvisc	0.0001055	Paxs	529.44	Joback Method
dvisc	0.0000709	Paxs	592.18	Joback Method
dvisc	0.0000515	Paxs	654.92	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=R485704&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

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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