

cis-1,4,7,10,13,16-nonadecaheptaene

Inchi:	InChI=1S/C19H28/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h3,6-9,12-15,18-1
InchiKey:	NXMZAVSBUAXPCH-KAVCOGNJSA-N
Formula:	C19H28
SMILES:	C=CCC=CCC=CCC=CCC=CCC=CCC
Mol. weight [g/mol]:	256.43

Physical Properties

Property code	Value	Unit	Source
gf	598.04	kJ/mol	Joback Method
hf	276.04	kJ/mol	Joback Method
hfus	44.70	kJ/mol	Joback Method
hvap	57.01	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.314		Crippen Method
mvol	252.770	ml/mol	McGowan Method
pc	1331.98	kPa	Joback Method
ripol	1808.00		NIST Webbook
ripol	2188.00		NIST Webbook
tb	651.60	K	Joback Method
tc	839.60	K	Joback Method
tf	276.73	K	Joback Method
vc	0.981	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.94	J/molxK	651.60	Joback Method
cpg	674.07	J/molxK	682.93	Joback Method
cpg	691.23	J/molxK	714.27	Joback Method
cpg	707.51	J/molxK	745.60	Joback Method
cpg	723.01	J/molxK	776.93	Joback Method
cpg	737.81	J/molxK	808.27	Joback Method
cpg	751.98	J/molxK	839.60	Joback Method
dvisc	0.0028881	Paxs	276.73	Joback Method

dvisc	0.0008071	Paxs	339.21	Joback Method
dvisc	0.0003353	Paxs	401.69	Joback Method
dvisc	0.0001765	Paxs	464.17	Joback Method
dvisc	0.0001082	Paxs	526.64	Joback Method
dvisc	0.0000735	Paxs	589.12	Joback Method
dvisc	0.0000538	Paxs	651.60	Joback Method

Sources

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=R485660&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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