

cis,cis-2,13-pentadecadiene

Inchi:	InChI=1S/C15H28/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h3-6H,7-15H2,1-2H3/b5-3-,6-4-
InchiKey:	HGLTZGLDKKCYIH-GLIMQPGKSA-N
Formula:	C15H28
SMILES:	CC=CCCCCCCCCCC=CC
Mol. weight [g/mol]:	208.38

Physical Properties

Property code	Value	Unit	Source
gf	235.86	kJ/mol	Joback Method
hf	-118.49	kJ/mol	Joback Method
hfus	35.01	kJ/mol	Joback Method
hvap	48.90	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.649		Crippen Method
mcvol	213.610	ml/mol	McGowan Method
pc	1533.06	kPa	Joback Method
rinpol	1506.00		NIST Webbook
rinpol	1506.00		NIST Webbook
tb	550.92	K	Joback Method
tc	722.33	K	Joback Method
tf	248.65	K	Joback Method
vc	0.836	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.62	J/molxK	550.92	Joback Method
cpg	540.76	J/molxK	579.49	Joback Method
cpg	558.08	J/molxK	608.06	Joback Method
cpg	574.62	J/molxK	636.62	Joback Method
cpg	590.40	J/molxK	665.19	Joback Method
cpg	605.47	J/molxK	693.76	Joback Method
cpg	619.87	J/molxK	722.33	Joback Method
dvisc	0.0048833	Paxs	248.65	Joback Method

dvisc	0.0015694	Paxs	299.03	Joback Method
dvisc	0.0006997	Paxs	349.41	Joback Method
dvisc	0.0003824	Paxs	399.78	Joback Method
dvisc	0.0002392	Paxs	450.16	Joback Method
dvisc	0.0001645	Paxs	500.54	Joback Method
dvisc	0.0001211	Paxs	550.92	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R133889&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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