dimethyl-2,15 hexadecadiene-1,15

Inchi: InChI=1S/C18H34/c1-17(2)15-13-11-9-7-5-6-8-10-12-14-16-18(3)4/h1,3,5-16H2,2,4H3
InchiKey: QEKVSQDNGNGMQA-UHFFFAOYSA-N
Formula: C18H34
SMILES: C=C(C)CCCCCCCCCCCCC(=C)C
Mol. weight [g/mol]: 250.46

Physical Properties

Property code	Value	Unit	Source
gf	259.26	kJ/mol	Joback Method
hf	-183.57	kJ/mol	Joback Method
hfus	37.20	kJ/mol	Joback Method
hvap	54.48	kJ/mol	Joback Method
log10ws	-7.06		Crippen Method
logp	6.820		Crippen Method
mcvol	255.880	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
rinpol	1749.00		NIST Webbook
rinpol	1749.00		NIST Webbook
ripol	1886.00		NIST Webbook
tb	604.36	K	Joback Method
tc	771.00	K	Joback Method
tf	261.18	K	Joback Method
vc	1.008	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.56	J/mol×K	604.36	Joback Method
cpg	698.19	J/mol×K	632.13	Joback Method
cpg	716.98	J/mol×K	659.91	Joback Method
cpg	734.95	J/mol×K	687.68	Joback Method
cpg	752.14	J/mol×K	715.45	Joback Method
cpg	768.57	J/mol×K	743.23	Joback Method
cpg	784.29	J/mol×K	771.00	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R242512&Units=SI

Legend

cpg:	Ideal gas heat capacity
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