1,8-Pentadecadiene

Inchi: InChI=1S/C15H28/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h3,14-15H,1,4-13H2,2H3/b15-1
InchiKey: PQWPWUNWPDVJAA-CCEZHUSRSA-N
Formula: C15H28
SMILES: C=CCCCCCC=CCCCCCC
Mol. weight [g/mol]: 208.38

Physical Properties

Property code	Value	Unit	Source
gf	243.48	kJ/mol	Joback Method
hf	-110.28	kJ/mol	Joback Method
hfus	33.53	kJ/mol	Joback Method
hvap	48.27	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.649		Crippen Method
mcvol	213.610	ml/mol	McGowan Method
pc	1521.12	kPa	Joback Method
rinpol	1488.00		NIST Webbook
tb	543.44	K	Joback Method
tc	711.14	K	Joback Method
tf	251.97	K	Joback Method
vc	0.837	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	520.34	J/mol×K	543.44	Joback Method
cpg	538.31	J/mol×K	571.39	Joback Method
cpg	555.50	J/mol×K	599.34	Joback Method
cpg	571.94	J/mol×K	627.29	Joback Method
cpg	587.66	J/mol×K	655.24	Joback Method
cpg	602.69	J/mol×K	683.19	Joback Method
cpg	617.05	J/mol×K	711.14	Joback Method
dvisc	0.0047386	Pa×s	251.97	Joback Method
dvisc	0.0016613	Pa×s	300.55	Joback Method

dvisc	0.0007797	Pa×s	349.13	Joback Method
dvisc	0.0004402	Pa×s	397.71	Joback Method
dvisc	0.0002815	Pa×s	446.28	Joback Method
dvisc	0.0001965	Pa×s	494.86	Joback Method
dvisc	0.0001463	Pa×s	543.44	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=R408930&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume