2,4-pentadecadiene

Inchi: InChI=1S/C15H28/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h3,5,7,9H,4,6,8,10-15H2,1-2H3
InchiKey: SJQKBZGGVVALLF-WJDMQLPWSA-N
Formula: C15H28
SMILES: CC=CC=CCCCCCCCCCC
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
ripol	1583.00		NIST Webbook
ripol	1583.00		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/mol×K	550.92	Joback Method
cpg	605.47	J/mol×K	693.76	Joback Method
cpg	590.40	J/mol×K	665.19	Joback Method
cpg	574.62	J/mol×K	636.62	Joback Method
cpg	558.08	J/mol×K	608.06	Joback Method
cpg	540.76	J/mol×K	579.49	Joback Method
cpg	619.87	J/mol×K	722.33	Joback Method
dvisc	0.0001211	Pa×s	550.92	Joback Method

dvisc	0.0001645	Pa×s	500.54	Joback Method
dvisc	0.0002392	Pa×s	450.16	Joback Method
dvisc	0.0003824	Pa×s	399.78	Joback Method
dvisc	0.0006997	Pa×s	349.41	Joback Method
dvisc	0.0015694	Pa×s	299.03	Joback Method
dvisc	0.0048833	Pa×s	248.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R298609&Units=SI
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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume