pentadecadiene-1,14

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

Physical Properties

Property code	Value	Unit	Source
gf	251.10	kJ/mol	Joback Method
hf	-102.07	kJ/mol	Joback Method
hfus	32.05	kJ/mol	Joback Method
hvap	47.64	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.649		Crippen Method
mcvol	213.610	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinpol	1480.00		NIST Webbook
rinpol	1475.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1475.00		NIST Webbook
ripol	1617.00		NIST Webbook
ripol	1617.00		NIST Webbook
tb	535.96	K	Joback Method
tc	700.02	K	Joback Method
tf	255.29	K	Joback Method
vc	0.838	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.01	J/mol×K	535.96	Joback Method
cpg	599.81	J/mol×K	672.67	Joback Method
cpg	584.83	J/mol×K	645.33	Joback Method
cpg	569.19	J/mol×K	617.99	Joback Method

cpg	552.86	J/mol×K	590.65	Joback Method
cpg	535.80	J/mol×K	563.30	Joback Method
cpg	614.14	J/mol×K	700.02	Joback Method
dvisc	0.0001765	Pa×s	535.96	Joback Method
dvisc	0.0002345	Pa×s	489.18	Joback Method
dvisc	0.0003308	Pa×s	442.40	Joback Method
dvisc	0.0005064	Pa×s	395.62	Joback Method
dvisc	0.0008687	Pa×s	348.85	Joback Method
dvisc	0.0017616	Pa×s	302.07	Joback Method
dvisc	0.0046286	Pa×s	255.29	Joback Method

Sources

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=R242587&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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