1,11-Heptadecadiene, 8,9-epoxy

Inchi: InChI=1S/C17H30O/c1-3-5-7-9-11-13-15-17-16(18-17)14-12-10-8-6-4-2/h4,11,13,16-17H
InchiKey: QKWIFEQLRBYFGJ-ACCUITESSA-N
Formula: C17H30O
SMILES: C=CCCCCCC1OC1CC=CCCCCC
Mol. weight [g/mol]: 250.42

Physical Properties

Property code	Value	Unit	Source
gf	227.24	kJ/mol	Joback Method
hf	-231.10	kJ/mol	Joback Method
hfus	45.89	kJ/mol	Joback Method
hvap	56.84	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.417		Crippen Method
mcvol	236.800	ml/mol	McGowan Method
pc	1404.84	kPa	Joback Method
rinpol	1820.00		NIST Webbook
rinpol	1820.00		NIST Webbook
ripol	2180.00		NIST Webbook
ripol	2180.00		NIST Webbook
tb	618.22	K	Joback Method
tc	793.91	K	Joback Method
tf	314.78	K	Joback Method
vc	0.925	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.51	J/mol×K	618.22	Joback Method
cpg	738.81	J/mol×K	764.63	Joback Method
cpg	723.01	J/mol×K	735.35	Joback Method
cpg	706.43	J/mol×K	706.06	Joback Method
cpg	689.02	J/mol×K	676.78	Joback Method
cpg	670.73	J/mol×K	647.50	Joback Method

cpg	753.88	J/mol×K	793.91	Joback Method
dvisc	0.0003274	Pa×s	618.22	Joback Method
dvisc	0.0003940	Pa×s	567.65	Joback Method
dvisc	0.0004917	Pa×s	517.07	Joback Method
dvisc	0.0006439	Pa×s	466.50	Joback Method
dvisc	0.0009001	Pa×s	415.93	Joback Method
dvisc	0.0013808	Pa×s	365.35	Joback Method
dvisc	0.0024302	Pa×s	314.78	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=R76238&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume