(Z,Z,Z)-8,11,14-Heptadecatrienal

Other names: (8Z,11Z,14Z)-Heptadecatrienal
Inchi: InChI=1S/C17H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18/h3-4,6-7,9-10,17H,2
InchiKey: NIPNNUONNZABRE-PDBXOOCHSA-N
Formula: C17H28O
SMILES: CCC=CCC=CCC=CCCCCCCC=O
Mol. weight [g/mol]: 248.40

Physical Properties

Property code	Value	Unit	Source
gf	233.40	kJ/mol	Joback Method
hf	-128.13	kJ/mol	Joback Method
hfus	42.68	kJ/mol	Joback Method
hvap	60.03	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	5.385		Crippen Method
mcvol	239.060	ml/mol	McGowan Method
pc	1456.79	kPa	Joback Method
rinpol	1852.00		NIST Webbook
rinpol	1874.00		NIST Webbook
tb	649.50	K	Joback Method
tc	829.17	K	Joback Method
tf	308.11	K	Joback Method
vc	0.945	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	637.68	J/mol×K	649.50	Joback Method
cpg	715.11	J/mol×K	799.22	Joback Method
cpg	701.10	J/mol×K	769.28	Joback Method
cpg	686.40	J/mol×K	739.33	Joback Method
cpg	670.97	J/mol×K	709.39	Joback Method
cpg	654.74	J/mol×K	679.44	Joback Method
cpg	728.49	J/mol×K	829.17	Joback Method

dvisc	0.0000978	Pa×s	649.50	Joback Method
dvisc	0.0001321	Pa×s	592.60	Joback Method
dvisc	0.0001901	Pa×s	535.70	Joback Method
dvisc	0.0002984	Pa×s	478.81	Joback Method
dvisc	0.0005290	Pa×s	421.91	Joback Method
dvisc	0.0011210	Pa×s	365.01	Joback Method
dvisc	0.0031347	Pa×s	308.11	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=R263524&Units=SI

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