

(8Z,11Z)-Heptadecadienal

Inchi:	InChI=1S/C17H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18/h6-7,9-10,17H,2-5,8
InchiKey:	JEBIMSVVDVTZIY-HZJYTTRNSA-N
Formula:	C17H30O
SMILES:	CCCCC=CCC=CCCCCCC=O
Mol. weight [g/mol]:	250.42

Physical Properties

Property code	Value	Unit	Source
gf	153.18	kJ/mol	Joback Method
hf	-245.35	kJ/mol	Joback Method
hfus	42.48	kJ/mol	Joback Method
hvap	60.07	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	5.609		Crippen Method
mcvol	243.360	ml/mol	McGowan Method
pc	1400.64	kPa	Joback Method
rinpol	1863.00		NIST Webbook
rinpol	1846.00		NIST Webbook
tb	645.34	K	Joback Method
tc	819.41	K	Joback Method
tf	313.19	K	Joback Method
vc	0.965	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.67	J/molxK	645.34	Joback Method
cpg	738.37	J/molxK	790.40	Joback Method
cpg	723.90	J/molxK	761.39	Joback Method
cpg	708.74	J/molxK	732.38	Joback Method
cpg	692.85	J/molxK	703.36	Joback Method
cpg	676.17	J/molxK	674.35	Joback Method
cpg	752.18	J/molxK	819.41	Joback Method
dvisc	0.0001138	Paxs	645.34	Joback Method

dvisc	0.0001534	Paxs	589.98	Joback Method
dvisc	0.0002201	Paxs	534.62	Joback Method
dvisc	0.0003431	Paxs	479.26	Joback Method
dvisc	0.0006009	Paxs	423.91	Joback Method
dvisc	0.0012452	Paxs	368.55	Joback Method
dvisc	0.0033384	Paxs	313.19	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=R270785&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

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