

Gamolenic acid

Other names:	(Z,Z,Z)-6,9,12-Octadecatrienoic acid (Z,Z,Z)-6,9,12-octatrienoic acid .gamma.-linolenic acid «gamma»-Linolenic acid
Inchi:	InChI=1S/C18H30O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(19)20/h6-7,9-10,12-13,15-16,18-19/t2,4,6,8,10,12,14,16,18
InchiKey:	VZCCETWTMQHEPK-QNEBEIHSSA-N
Formula:	C18H30O2
SMILES:	CCCCC=CCC=CCC=CCCCC(=O)O
Mol. weight [g/mol]:	278.43
CAS:	506-26-3

Physical Properties

Property code	Value	Unit	Source
gf	75.60	kJ/mol	Joback Method
hf	-328.00	kJ/mol	Joback Method
hfus	48.67	kJ/mol	Joback Method
hvap	78.96	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	5.661		Crippen Method
mcvol	259.020	ml/mol	McGowan Method
pc	1440.25	kPa	Joback Method
rinpol	2143.50		NIST Webbook
rinpol	2143.50		NIST Webbook
tb	769.77	K	Joback Method
tc	951.83	K	Joback Method
tf	388.13	K	Joback Method
vc	1.008	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.47	J/mol×K	769.77	Joback Method
cpg	777.83	J/mol×K	800.11	Joback Method
cpg	792.49	J/mol×K	830.46	Joback Method

cpg	806.48	J/mol×K	860.80	Joback Method
cpg	819.88	J/mol×K	891.14	Joback Method
cpg	832.74	J/mol×K	921.49	Joback Method
cpg	845.11	J/mol×K	951.83	Joback Method
dvisc	0.0022584	Pa×s	388.13	Joback Method
dvisc	0.0005488	Pa×s	451.74	Joback Method
dvisc	0.0001891	Pa×s	515.34	Joback Method
dvisc	0.0000823	Pa×s	578.95	Joback Method
dvisc	0.0000423	Pa×s	642.56	Joback Method
dvisc	0.0000245	Pa×s	706.16	Joback Method
dvisc	0.0000155	Pa×s	769.77	Joback Method
hvapt	135.90	kJ/mol	298.00	Vapor Pressures and Vaporization, Sublimation, and Fusion Enthalpies of Some Fatty Acids

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Vapor Pressures and Vaporization, Sublimation, and Fusion Enthalpies of Some Fatty Acids:	https://www.doi.org/10.1021/je300902c
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=C506263&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
hvapt:	Enthalpy of vaporization at a given temperature
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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