3,6-Pentadecadienal

Inchi: InChI=1S/C15H26O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16/h9-10,12-13,15H,2-8,11,1
InchiKey: WPSYTNKOASTMBG-OKLKQMLOSA-N
Formula: C15H26O
SMILES: CCCCCCCCC=CCC=CCC=O
Mol. weight [g/mol]: 222.37

Physical Properties

Property code	Value	Unit	Source
gf	136.34	kJ/mol	Joback Method
hf	-204.07	kJ/mol	Joback Method
hfus	37.30	kJ/mol	Joback Method
hvap	55.62	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.829		Crippen Method
mcvol	215.180	ml/mol	McGowan Method
pc	1625.91	kPa	Joback Method
rinpol	1651.00		NIST Webbook
rinpol	1651.00		NIST Webbook
tb	599.58	K	Joback Method
tc	775.44	K	Joback Method
tf	290.65	K	Joback Method
vc	0.853	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	551.19	J/mol×K	599.58	Joback Method
cpg	567.81	J/mol×K	628.89	Joback Method
cpg	583.64	J/mol×K	658.20	Joback Method
cpg	598.72	J/mol×K	687.51	Joback Method
cpg	613.08	J/mol×K	716.82	Joback Method
cpg	626.76	J/mol×K	746.13	Joback Method
cpg	639.81	J/mol×K	775.44	Joback Method
dvisc	0.0038417	Pa×s	290.65	Joback Method

dvisc	0.0014604	Pa×s	342.14	Joback Method
dvisc	0.0007150	Pa×s	393.63	Joback Method
dvisc	0.0004130	Pa×s	445.12	Joback Method
dvisc	0.0002673	Pa×s	496.60	Joback Method
dvisc	0.0001877	Pa×s	548.09	Joback Method
dvisc	0.0001401	Pa×s	599.58	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=R442029&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