Methyl 10,11-tetradecadienoate

Other names: Methyl tetradeca-10,11-dienoate
Inchi: InChI=1S/C15H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15(16)17-2/h4,6H,3,7-14H2,1-2H
InchiKey: WUTSRWOBMGPOSQ-UHFFFAOYSA-N
Formula: C15H26O2
SMILES: CCC=C=CCCCCCCCCC(=O)OC
Mol. weight [g/mol]: 238.37

Physical Properties

Property code	Value	Unit	Source
gf	50.00	kJ/mol	Joback Method
hf	-317.73	kJ/mol	Joback Method
hfus	39.72	kJ/mol	Joback Method
hvap	58.53	kJ/mol	Joback Method
log10ws	-4.69		Crippen Method
logp	4.401		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
ripol	1663.00		NIST Webbook
tb	626.32	K	Joback Method
tc	806.69	K	Joback Method
tf	332.40	K	Joback Method
vc	0.860	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	582.18	J/mol×K	626.32	Joback Method
cpg	598.97	J/mol×K	656.38	Joback Method
cpg	615.01	J/mol×K	686.44	Joback Method
cpg	630.31	J/mol×K	716.51	Joback Method
cpg	644.89	J/mol×K	746.57	Joback Method
cpg	658.76	J/mol×K	776.63	Joback Method
cpg	671.93	J/mol×K	806.69	Joback Method

Sources

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=U336318&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume