(S)-2-Methylbutyl (E)-7,9-decadienoate

Inchi: InChI=1S/C15H26O2/c1-4-6-7-8-9-10-11-12-15(16)17-13-14(3)5-2/h4,6-7,14H,1,5,8-13H
InchiKey: FPVAIPSGPXYQND-PSKZRQQASA-N
Formula: C15H26O2
SMILES: C=CC=CCCCCCC(=O)OCC(C)CC
Mol. weight [g/mol]: 238.37

Physical Properties

Property code	Value	Unit	Source
gf	7.12	kJ/mol	Joback Method
hf	-360.36	kJ/mol	Joback Method
hfus	32.79	kJ/mol	Joback Method
hvap	57.04	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.268		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
rinpol	1676.00		NIST Webbook
tb	619.29	K	Joback Method
tc	797.56	K	Joback Method
tf	309.13	K	Joback Method
vc	0.855	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	578.91	J/mol×K	619.29	Joback Method
cpg	655.44	J/mol×K	767.84	Joback Method
cpg	641.60	J/mol×K	738.13	Joback Method
cpg	627.06	J/mol×K	708.42	Joback Method
cpg	611.78	J/mol×K	678.71	Joback Method
cpg	595.74	J/mol×K	649.00	Joback Method
cpg	668.59	J/mol×K	797.56	Joback Method
dvisc	0.0001140	Pa×s	619.29	Joback Method
dvisc	0.0001539	Pa×s	567.60	Joback Method

dvisc	0.0002207	Pa×s	515.90	Joback Method
dvisc	0.0003427	Pa×s	464.21	Joback Method
dvisc	0.0005945	Pa×s	412.52	Joback Method
dvisc	0.0012073	Pa×s	360.82	Joback Method
dvisc	0.0031075	Pa×s	309.13	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=R556628&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