Allyl tricosanoate

Inchi: InChI=1S/C26H50O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26
InchiKey: CLRFJBXIZDMMBQ-UHFFFAOYSA-N
Formula: C26H50O2
SMILES: C=CCOC(=O)CCCCCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 394.67

Physical Properties

Property code	Value	Unit	Source
gf	21.96	kJ/mol	Joback Method
hf	-699.34	kJ/mol	Joback Method
hfus	64.60	kJ/mol	Joback Method
hvap	81.96	kJ/mol	Joback Method
log10ws	-9.42		Crippen Method
logp	8.928		Crippen Method
mcvol	380.340	ml/mol	McGowan Method
pc	760.58	kPa	Joback Method
rinpol	2744.00		NIST Webbook
tb	867.25	K	Joback Method
tc	1062.66	K	Joback Method
tf	453.18	K	Joback Method
vc	1.496	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1256.75	J/mol×K	867.25	Joback Method
cpg	1279.01	J/mol×K	899.82	Joback Method
cpg	1300.00	J/mol×K	932.39	Joback Method
cpg	1319.76	J/mol×K	964.96	Joback Method
cpg	1338.34	J/mol×K	997.53	Joback Method
cpg	1355.79	J/mol×K	1030.10	Joback Method
cpg	1372.17	J/mol×K	1062.66	Joback Method
dvisc	0.0008402	Pa×s	453.18	Joback Method
dvisc	0.0003441	Pa×s	522.19	Joback Method

dvisc	0.0001735	Pa×s	591.20	Joback Method
dvisc	0.0001010	Pa×s	660.22	Joback Method
dvisc	0.0000651	Pa×s	729.23	Joback Method
dvisc	0.0000453	Pa×s	798.24	Joback Method
dvisc	0.0000334	Pa×s	867.25	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R541176&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
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