Sebacic acid, di(but-3-enyl) ester

Inchi: InChI=1S/C18H30O4/c1-3-5-15-21-17(19)13-11-9-7-8-10-12-14-18(20)22-16-6-4-2/h3-4H
InchiKey: OJYNZEKRFKIIRG-UHFFFAOYSA-N
Formula: C18H30O4
SMILES: C=CCCOC(=O)CCCCCCCCC(=O)OCCC=C
Mol. weight [g/mol]: 310.43

Physical Properties

Property code	Value	Unit	Source
gf	-191.48	kJ/mol	Joback Method
hf	-653.59	kJ/mol	Joback Method
hfus	45.39	kJ/mol	Joback Method
hvap	72.63	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	4.346		Crippen Method
mcvol	270.760	ml/mol	McGowan Method
pc	1303.29	kPa	Joback Method
rinpol	2178.00		NIST Webbook
rinpol	2178.00		NIST Webbook
tb	757.18	K	Joback Method
tc	937.96	K	Joback Method
tf	433.42	K	Joback Method
vc	1.054	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	798.03	J/mol×K	757.18	Joback Method
cpg	814.39	J/mol×K	787.31	Joback Method
cpg	829.87	J/mol×K	817.44	Joback Method
cpg	844.49	J/mol×K	847.57	Joback Method
cpg	858.27	J/mol×K	877.70	Joback Method
cpg	871.23	J/mol×K	907.83	Joback Method
cpg	883.39	J/mol×K	937.96	Joback Method
dvisc	0.0010483	Pa×s	433.42	Joback Method

dvisc	0.0005380	Pa×s	487.38	Joback Method
dvisc	0.0003154	Pa×s	541.34	Joback Method
dvisc	0.0002037	Pa×s	595.30	Joback Method
dvisc	0.0001414	Pa×s	649.26	Joback Method
dvisc	0.0001039	Pa×s	703.22	Joback Method
dvisc	0.0000797	Pa×s	757.18	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=U356096&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