Di-iso-amyl tartrate

Other names: diisopentyl tartrate
Inchi: InChI=1S/C14H26O6/c1-9(2)5-7-19-13(17)11(15)12(16)14(18)20-8-6-10(3)4/h9-12,15-16
InchiKey: VOBHVQRBBHSZAZ-UHFFFAOYSA-N
Formula: C14H26O6
SMILES: CC(C)CCOC(=O)C(O)C(O)C(=O)OCCC(C)C
Mol. weight [g/mol]: 290.35
CAS: 16016-41-4

Physical Properties

Property code	Value	Unit	Source
gf	-684.24	kJ/mol	Joback Method
hf	-1147.47	kJ/mol	Joback Method
hfus	31.67	kJ/mol	Joback Method
hvap	96.88	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	0.887		Crippen Method
mcvol	234.740	ml/mol	McGowan Method
pc	1968.30	kPa	Joback Method
tb	854.90	K	Joback Method
tc	1047.58	K	Joback Method
tf	453.50	K	Joback Method
vc	0.881	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	747.33	J/mol×K	854.90	Joback Method
cpg	759.68	J/mol×K	887.01	Joback Method
cpg	771.15	J/mol×K	919.13	Joback Method
cpg	781.73	J/mol×K	951.24	Joback Method
cpg	791.44	J/mol×K	983.35	Joback Method
cpg	800.29	J/mol×K	1015.47	Joback Method
cpg	808.28	J/mol×K	1047.58	Joback Method
dvisc	0.0009996	Pa×s	453.50	Joback Method

dvisc	0.0001848	Pa×s	520.40	Joback Method
dvisc	0.0000502	Pa×s	587.30	Joback Method
dvisc	0.0000178	Pa×s	654.20	Joback Method
dvisc	0.0000076	Pa×s	721.10	Joback Method
dvisc	0.0000038	Pa×s	788.00	Joback Method
dvisc	0.0000021	Pa×s	854.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16016414&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume