Succinic acid, 2-methylpent-3-yl adamant-2-yl ester

Inchi: InChI=1S/C20H32O4/c1-4-17(12(2)3)23-18(21)5-6-19(22)24-20-15-8-13-7-14(10-15)11-1

InchiKey: WEGGLTRWGIASFY-UHFFFAOYSA-N

Formula: C20H32O4

SMILES: CCC(OC(=O)CCC(=O)OC1C2CC3CC(C2)CC1C3)C(C)C

Mol. weight [g/mol]: 336.47

Physical Properties

Property code	Value	Unit	Source
gf	-200.47	kJ/mol	Joback Method
hf	-784.73	kJ/mol	Joback Method
hfus	40.53	kJ/mol	Joback Method
hvap	76.94	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	4.112		Crippen Method
mcvol	274.960	ml/mol	McGowan Method
pc	1391.25	kPa	Joback Method
rinpol	2422.00		NIST Webbook
rinpol	2422.00		NIST Webbook
tb	823.85	K	Joback Method
tc	1029.97	K	Joback Method
tf	471.30	K	Joback Method
vc	1.052	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	933.35	J/mol×K	823.85	Joback Method
cpg	952.91	J/mol×K	858.20	Joback Method
cpg	971.26	J/mol×K	892.56	Joback Method
cpg	988.45	J/mol×K	926.91	Joback Method
cpg	1004.58	J/mol×K	961.26	Joback Method
cpg	1019.71	J/mol×K	995.61	Joback Method
cpg	1033.92	J/mol×K	1029.97	Joback Method
dvisc	0.0041919	Pa×s	471.30	Joback Method

dvisc	0.0031787	Pa×s	530.06	Joback Method
dvisc	0.0025473	Pa×s	588.82	Joback Method
dvisc	0.0021250	Pa×s	647.58	Joback Method
dvisc	0.0018269	Pa×s	706.33	Joback Method
dvisc	0.0016076	Pa×s	765.09	Joback Method
dvisc	0.0014406	Pa×s	823.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391341&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

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