Succinic acid, cyclohexylmethyl 2-methylbutyl ester

Inchi: InChI=1S/C16H28O4/c1-3-13(2)11-19-15(17)9-10-16(18)20-12-14-7-5-4-6-8-14/h13-14H

InchiKey: LVCKVYFNWMBSRR-UHFFFAOYSA-N

Formula: C16H28O4

SMILES: CCC(C)COC(=O)CCC(=O)OCC1CCCCC1

Mol. weight [g/mol]: 284.39

Physical Properties

Property code	Value	Unit	Source
gf	-361.99	kJ/mol	Joback Method
hf	-814.13	kJ/mol	Joback Method
hfus	31.08	kJ/mol	Joback Method
hvap	69.56	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.479		Crippen Method
mcvol	240.320	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	2009.00		NIST Webbook
rinpol	2009.00		NIST Webbook
tb	737.17	K	Joback Method
tc	936.26	K	Joback Method
tf	406.78	K	Joback Method
vc	0.906	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.43	J/mol×K	737.17	Joback Method
cpg	748.04	J/mol×K	770.35	Joback Method
cpg	765.47	J/mol×K	803.53	Joback Method
cpg	781.74	J/mol×K	836.71	Joback Method
cpg	796.88	J/mol×K	869.89	Joback Method
cpg	810.88	J/mol×K	903.07	Joback Method
cpg	823.77	J/mol×K	936.26	Joback Method
dvisc	0.0017773	Pa×s	406.78	Joback Method

dvisc	0.0008018	Pa×s	461.84	Joback Method
dvisc	0.0004286	Pa×s	516.91	Joback Method
dvisc	0.0002585	Pa×s	571.97	Joback Method
dvisc	0.0001703	Pa×s	627.04	Joback Method
dvisc	0.0001201	Pa×s	682.11	Joback Method
dvisc	0.0000892	Pa×s	737.17	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=U389632&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