Succinic acid, cyclohexylmethyl 2-ethoxyethyl ester

Inchi: InChI=1S/C15H26O5/c1-2-18-10-11-19-14(16)8-9-15(17)20-12-13-6-4-3-5-7-13/h13H,2-1

InchiKey: BABRNFIYNOFVHX-UHFFFAOYSA-N

Formula: C15H26O5

SMILES: CCOCCOC(=O)CCC(=O)OCC1CCCCC1

Mol. weight [g/mol]: 286.36

Physical Properties

Property code	Value	Unit	Source
gf	-472.97	kJ/mol	Joback Method
hf	-920.43	kJ/mol	Joback Method
hfus	33.20	kJ/mol	Joback Method
hvap	70.14	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.470		Crippen Method
mcvol	232.100	ml/mol	McGowan Method
pc	1768.38	kPa	Joback Method
rinpol	2026.00		NIST Webbook
tb	737.15	K	Joback Method
tc	934.15	K	Joback Method
tf	432.74	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.63	J/mol×K	737.15	Joback Method
cpg	719.30	J/mol×K	769.98	Joback Method
cpg	735.85	J/mol×K	802.82	Joback Method
cpg	751.29	J/mol×K	835.65	Joback Method
cpg	765.61	J/mol×K	868.48	Joback Method
cpg	778.82	J/mol×K	901.31	Joback Method
cpg	790.92	J/mol×K	934.15	Joback Method
dvisc	0.0011114	Pa×s	432.74	Joback Method
dvisc	0.0005767	Pa×s	483.48	Joback Method

dvisc	0.0003389	Pa×s	534.21	Joback Method
dvisc	0.0002184	Pa×s	584.94	Joback Method
dvisc	0.0001510	Pa×s	635.68	Joback Method
dvisc	0.0001102	Pa×s	686.41	Joback Method
dvisc	0.0000840	Pa×s	737.15	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=U390666&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