

Succinic acid, cyclohexylmethyl 3-methylbut-2-yl ester

Inchi:	InChI=1S/C16H28O4/c1-12(2)13(3)20-16(18)10-9-15(17)19-11-14-7-5-4-6-8-14/h12-14H
InchiKey:	ZMDWVPSLRPMXPS-UHFFFAOYSA-N
Formula:	C16H28O4
SMILES:	CC(C)C(C)OC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	284.39

Physical Properties

Property code	Value	Unit	Source
gf	-364.43	kJ/mol	Joback Method
hf	-819.41	kJ/mol	Joback Method
hfus	27.56	kJ/mol	Joback Method
hvap	69.17	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.478		Crippen Method
mvol	240.320	ml/mol	McGowan Method
pc	1678.28	kPa	Joback Method
rinpol	1944.00		NIST Webbook
rinpol	1944.00		NIST Webbook
tb	736.73	K	Joback Method
tc	938.75	K	Joback Method
tf	391.78	K	Joback Method
vc	0.900	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.92	J/molxK	736.73	Joback Method
cpg	812.37	J/molxK	905.08	Joback Method
cpg	798.26	J/molxK	871.41	Joback Method
cpg	782.97	J/molxK	837.74	Joback Method
cpg	766.49	J/molxK	804.07	Joback Method
cpg	748.81	J/molxK	770.40	Joback Method
cpg	825.33	J/molxK	938.75	Joback Method
dvisc	0.0000823	Paxs	736.73	Joback Method

dvisc	0.0001129	Paxs	679.24	Joback Method
dvisc	0.0001643	Paxs	621.75	Joback Method
dvisc	0.0002579	Paxs	564.25	Joback Method
dvisc	0.0004487	Paxs	506.76	Joback Method
dvisc	0.0008993	Paxs	449.27	Joback Method
dvisc	0.0022105	Paxs	391.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390585&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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