

Succinic acid, cyclohexylmethyl cyclopentyl ester

Inchi:	InChI=1S/C16H26O4/c17-15(19-12-13-6-2-1-3-7-13)10-11-16(18)20-14-8-4-5-9-14/h13-1
InchiKey:	JBPAKGMTVHRLJC-UHFFFAOYSA-N
Formula:	C16H26O4
SMILES:	O=C(CCC(=O)OC1CCCC1)OCC1CCCCC1
Mol. weight [g/mol]:	282.38

Physical Properties

Property code	Value	Unit	Source
gf	-323.00	kJ/mol	Joback Method
hf	-748.37	kJ/mol	Joback Method
hfus	28.54	kJ/mol	Joback Method
hvap	70.21	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.376		Crippen Method
mcvol	229.460	ml/mol	McGowan Method
pc	1928.74	kPa	Joback Method
rinpol	2145.00		NIST Webbook
rinpol	2145.00		NIST Webbook
tb	752.89	K	Joback Method
tc	970.12	K	Joback Method
tf	432.68	K	Joback Method
vc	0.854	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	720.94	J/molxK	752.89	Joback Method
cpg	805.79	J/molxK	933.91	Joback Method
cpg	791.63	J/molxK	897.71	Joback Method
cpg	776.09	J/molxK	861.50	Joback Method
cpg	759.15	J/molxK	825.30	Joback Method
cpg	740.78	J/molxK	789.09	Joback Method
cpg	818.61	J/molxK	970.12	Joback Method
dvisc	0.0001406	Paxs	752.89	Joback Method

dvisc	0.0001828	Paxs	699.52	Joback Method
dvisc	0.0002482	Paxs	646.15	Joback Method
dvisc	0.0003560	Paxs	592.78	Joback Method
dvisc	0.0005483	Paxs	539.42	Joback Method
dvisc	0.0009287	Paxs	486.05	Joback Method
dvisc	0.0017914	Paxs	432.68	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391377&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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