

Succinic acid, cyclohexylmethyl but-2-en-1-yl ester

Inchi:	InChI=1S/C15H24O4/c1-2-3-11-18-14(16)9-10-15(17)19-12-13-7-5-4-6-8-13/h2-3,13H,4-
InchiKey:	WVPNAJCALWVRDW-NSCUHMNNSA-N
Formula:	C15H24O4
SMILES:	CC=CCOC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	268.35

Physical Properties

Property code	Value	Unit	Source
gf	-287.75	kJ/mol	Joback Method
hf	-670.99	kJ/mol	Joback Method
hfus	32.22	kJ/mol	Joback Method
hvap	67.68	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.009		Crippen Method
mcvol	221.930	ml/mol	McGowan Method
pc	1875.65	kPa	Joback Method
tb	718.89	K	Joback Method
tc	923.19	K	Joback Method
tf	405.43	K	Joback Method
vc	0.837	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.75	J/mol×K	718.89	Joback Method
cpg	666.42	J/mol×K	752.94	Joback Method
cpg	682.97	J/mol×K	786.99	Joback Method
cpg	698.43	J/mol×K	821.04	Joback Method
cpg	712.83	J/mol×K	855.09	Joback Method
cpg	726.19	J/mol×K	889.14	Joback Method
cpg	738.52	J/mol×K	923.19	Joback Method
dvisc	0.0014950	Paxs	405.43	Joback Method
dvisc	0.0007271	Paxs	457.67	Joback Method
dvisc	0.0004100	Paxs	509.92	Joback Method

dvisc	0.0002571	Paxs	562.16	Joback Method
dvisc	0.0001746	Paxs	614.40	Joback Method
dvisc	0.0001259	Paxs	666.65	Joback Method
dvisc	0.0000953	Paxs	718.89	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=U391224&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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