

Succinic acid, 2-methylpent-3-yl tetrahydrofurfuryl ester

Inchi:	InChI=1S/C15H26O5/c1-4-13(11(2)3)20-15(17)8-7-14(16)19-10-12-6-5-9-18-12/h11-13H
InchiKey:	YUZXAPFWBWBILV-UHFFFAOYSA-N
Formula:	C15H26O5
SMILES:	CCC(OC(=O)CCC(=O)OCC1CCCO1)C(C)C
Mol. weight [g/mol]:	286.36

Physical Properties

Property code	Value	Unit	Source
gf	-446.87	kJ/mol	Joback Method
hf	-924.61	kJ/mol	Joback Method
hfus	35.05	kJ/mol	Joback Method
hvap	71.29	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	2.467		Crippen Method
mcvol	232.100	ml/mol	McGowan Method
pc	1766.90	kPa	Joback Method
rinpol	1943.00		NIST Webbook
tb	736.53	K	Joback Method
tc	934.87	K	Joback Method
tf	410.60	K	Joback Method
vc	0.874	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	703.64	J/mol×K	736.53	Joback Method
cpg	779.32	J/mol×K	901.82	Joback Method
cpg	766.28	J/mol×K	868.76	Joback Method
cpg	752.20	J/mol×K	835.70	Joback Method
cpg	737.08	J/mol×K	802.64	Joback Method
cpg	720.90	J/mol×K	769.59	Joback Method
cpg	791.35	J/mol×K	934.87	Joback Method
dvisc	0.0001159	Paxs	736.53	Joback Method
dvisc	0.0001547	Paxs	682.21	Joback Method

dvisc	0.0002172	Paxs	627.89	Joback Method
dvisc	0.0003250	Paxs	573.57	Joback Method
dvisc	0.0005292	Paxs	519.24	Joback Method
dvisc	0.0009656	Paxs	464.92	Joback Method
dvisc	0.0020659	Paxs	410.60	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390715&Units=SI

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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