

Succinic acid, cyclohexylmethyl non-3-en-1-yl ester

Inchi:	InChI=1S/C20H34O4/c1-2-3-4-5-6-7-11-16-23-19(21)14-15-20(22)24-17-18-12-9-8-10-13
InchiKey:	JZGDWYZIOHELHJ-VOTSOKGWSA-N
Formula:	C20H34O4
SMILES:	CCCCC=CCCOC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	338.48

Physical Properties

Property code	Value	Unit	Source
gf	-245.65	kJ/mol	Joback Method
hf	-774.19	kJ/mol	Joback Method
hfus	45.17	kJ/mol	Joback Method
hvap	78.81	kJ/mol	Joback Method
log10ws	-5.43		Crippen Method
logp	4.960		Crippen Method
mvol	292.380	ml/mol	McGowan Method
pc	1285.59	kPa	Joback Method
rinpol	2445.00		NIST Webbook
rinpol	2445.00		NIST Webbook
tb	833.29	K	Joback Method
tc	1033.01	K	Joback Method
tf	461.78	K	Joback Method
vc	1.117	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	940.56	J/molxK	833.29	Joback Method
cpg	958.99	J/molxK	866.58	Joback Method
cpg	976.17	J/molxK	899.86	Joback Method
cpg	992.14	J/molxK	933.15	Joback Method
cpg	1006.93	J/molxK	966.43	Joback Method
cpg	1020.57	J/molxK	999.72	Joback Method
cpg	1033.10	J/molxK	1033.01	Joback Method
dvisc	0.0008944	Paxs	461.78	Joback Method

dvisc	0.0004116	Paxs	523.70	Joback Method
dvisc	0.0002232	Paxs	585.62	Joback Method
dvisc	0.0001361	Paxs	647.53	Joback Method
dvisc	0.0000905	Paxs	709.45	Joback Method
dvisc	0.0000642	Paxs	771.37	Joback Method
dvisc	0.0000479	Paxs	833.29	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=U391098&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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