

Succinic acid, 3,3-dimethylbut-2-yl nonadecyl ester

Inchi:	InChI=1S/C29H56O4/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-32-27(30)
InchiKey:	ZLSHZKCYWNVOPM-UHFFFAOYSA-N
Formula:	C29H56O4
SMILES:	CCCCCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OC(C)C(C)(C)C
Mol. weight [g/mol]:	468.75

Physical Properties

Property code	Value	Unit	Source
gf	-274.14	kJ/mol	Joback Method
hf	-1145.52	kJ/mol	Joback Method
hfus	65.50	kJ/mol	Joback Method
hvap	96.78	kJ/mol	Joback Method
log10ws	-9.56		Crippen Method
logp	8.939		Crippen Method
mvol	434.350	ml/mol	McGowan Method
pc	663.23	kPa	Joback Method
rinpol	3136.00		NIST Webbook
rinpol	3136.00		NIST Webbook
tb	1011.83	K	Joback Method
tc	1253.72	K	Joback Method
tf	548.33	K	Joback Method
vc	1.690	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1539.55	J/molxK	1011.83	Joback Method
cpg	1562.22	J/molxK	1052.14	Joback Method
cpg	1582.97	J/molxK	1092.46	Joback Method
cpg	1601.90	J/molxK	1132.77	Joback Method
cpg	1619.12	J/molxK	1173.09	Joback Method
cpg	1634.74	J/molxK	1213.40	Joback Method
cpg	1648.87	J/molxK	1253.72	Joback Method
dvisc	0.0002725	Paxs	548.33	Joback Method

dvisc	0.0001093	Paxs	625.58	Joback Method
dvisc	0.0000536	Paxs	702.83	Joback Method
dvisc	0.0000303	Paxs	780.08	Joback Method
dvisc	0.0000189	Paxs	857.33	Joback Method
dvisc	0.0000128	Paxs	934.58	Joback Method
dvisc	0.0000092	Paxs	1011.83	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=U349523&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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