

Succinic acid, 3-methylbut-2-yl 2-naphthyl ester

Inchi:	InChI=1S/C19H22O4/c1-13(2)14(3)22-18(20)10-11-19(21)23-17-9-8-15-6-4-5-7-16(15)12
InchiKey:	PSEDKZZDFCJISF-UHFFFAOYSA-N
Formula:	C19H22O4
SMILES:	CC(C)C(C)OC(=O)CCC(=O)Oc1ccc2ccccc2c1
Mol. weight [g/mol]:	314.38

Physical Properties

Property code	Value	Unit	Source
gf	-154.19	kJ/mol	Joback Method
hf	-519.52	kJ/mol	Joback Method
hfus	34.16	kJ/mol	Joback Method
hvap	80.00	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.113		Crippen Method
mcvol	250.230	ml/mol	McGowan Method
pc	1775.84	kPa	Joback Method
rinsol	2508.00		NIST Webbook
tb	836.46	K	Joback Method
tc	1057.07	K	Joback Method
tf	489.85	K	Joback Method
vc	0.950	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	746.58	J/molxK	836.46	Joback Method
cpg	808.95	J/molxK	1020.30	Joback Method
cpg	798.54	J/molxK	983.53	Joback Method
cpg	787.14	J/molxK	946.76	Joback Method
cpg	774.72	J/molxK	910.00	Joback Method
cpg	761.22	J/molxK	873.23	Joback Method
cpg	818.44	J/molxK	1057.07	Joback Method
dvisc	0.0001032	Paxs	836.46	Joback Method
dvisc	0.0001300	Paxs	778.69	Joback Method

dvisc	0.0001698	Paxs	720.92	Joback Method
dvisc	0.0002323	Paxs	663.15	Joback Method
dvisc	0.0003376	Paxs	605.39	Joback Method
dvisc	0.0005307	Paxs	547.62	Joback Method
dvisc	0.0009282	Paxs	489.85	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=U389834&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

Latest version available from:

<https://www.chemeo.com/cid/91-925-4/Succinic-acid-3-methylbut-2-yl-2-naphthyl-ester.pdf>

Generated by Cheméo on 2024-04-25 21:21:31.538124523 +0000 UTC m=+16369340.458701839.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.