

Succinic acid, naphth-2-ylmethyl non-3-en-1-yl ester

Inchi: InChI=1S/C24H30O4/c1-2-3-4-5-6-7-10-17-27-23(25)15-16-24(26)28-19-20-13-14-21-11
InchiKey: NKJPQJMYBOHKKY-VOTSOKGWSA-N
Formula: C24H30O4
SMILES: CCCCCC=CCCOC(=O)CCC(=O)OCc1ccc2ccccc2c1
Mol. weight [g/mol]: 382.49

Physical Properties

Property code	Value	Unit	Source
gf	-26.99	kJ/mol	Joback Method
hf	-494.94	kJ/mol	Joback Method
hfus	54.36	kJ/mol	Joback Method
hvap	91.87	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.733		Crippen Method
mcvol	316.380	ml/mol	McGowan Method
pc	1260.16	kPa	Joback Method
rinpol	3127.00		NIST Webbook
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tb	955.90	K	Joback Method
tc	1175.93	K	Joback Method
tf	571.12	K	Joback Method
vc	1.222	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.54	J/molxK	955.90	Joback Method
cpg	1026.68	J/molxK	992.57	Joback Method
cpg	1040.78	J/molxK	1029.24	Joback Method
cpg	1053.93	J/molxK	1065.92	Joback Method
cpg	1066.20	J/molxK	1102.59	Joback Method
cpg	1077.68	J/molxK	1139.26	Joback Method
cpg	1088.45	J/molxK	1175.93	Joback Method
dvisc	0.0004515	Paxs	571.12	Joback Method

dvisc	0.0002672	Paxs	635.25	Joback Method
dvisc	0.0001741	Paxs	699.38	Joback Method
dvisc	0.0001219	Paxs	763.51	Joback Method
dvisc	0.0000902	Paxs	827.64	Joback Method
dvisc	0.0000697	Paxs	891.77	Joback Method
dvisc	0.0000557	Paxs	955.90	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U391106&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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