

Succinic acid, dodec-2-en-1-yl 2-naphthyl ester

Inchi:	InChI=1S/C26H34O4/c1-2-3-4-5-6-7-8-9-10-13-20-29-25(27)18-19-26(28)30-24-17-16-22
InchiKey:	MNYNCZDOCXYPKM-JLHYYAGUSA-N
Formula:	C26H34O4
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)Oc1ccc2ccccc2c1
Mol. weight [g/mol]:	410.55

Physical Properties

Property code	Value	Unit	Source
gf	-10.15	kJ/mol	Joback Method
hf	-536.22	kJ/mol	Joback Method
hfus	59.54	kJ/mol	Joback Method
hvap	96.32	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	6.766		Crippen Method
mcvol	344.560	ml/mol	McGowan Method
pc	1104.47	kPa	Joback Method
rinsol	3337.00		NIST Webbook
tb	1001.66	K	Joback Method
tc	1227.24	K	Joback Method
tf	593.66	K	Joback Method
vc	1.333	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1133.52	J/molxK	1001.66	Joback Method
cpg	1202.61	J/molxK	1189.64	Joback Method
cpg	1190.57	J/molxK	1152.04	Joback Method
cpg	1177.74	J/molxK	1114.45	Joback Method
cpg	1164.01	J/molxK	1076.85	Joback Method
cpg	1149.31	J/molxK	1039.26	Joback Method
cpg	1213.95	J/molxK	1227.24	Joback Method
dvisc	0.0000421	Paxs	1001.66	Joback Method
dvisc	0.0000529	Paxs	933.66	Joback Method

dvisc	0.0000690	Paxs	865.66	Joback Method
dvisc	0.0000942	Paxs	797.66	Joback Method
dvisc	0.0001362	Paxs	729.66	Joback Method
dvisc	0.0002125	Paxs	661.66	Joback Method
dvisc	0.0003669	Paxs	593.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389843&Units=SI
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

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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