

Succinic acid, dodec-2-en-1-yl 2,3-dimethylphenyl ester

Inchi:	InChI=1S/C24H36O4/c1-4-5-6-7-8-9-10-11-12-13-19-27-23(25)17-18-24(26)28-22-16-14
InchiKey:	CRJVVPLAKWGPAQ-OUKQBFOZSA-N
Formula:	C24H36O4
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)Oc1cccc(C)c1C
Mol. weight [g/mol]:	388.54

Physical Properties

Property code	Value	Unit	Source
gf	-143.27	kJ/mol	Joback Method
hf	-697.48	kJ/mol	Joback Method
hfus	56.95	kJ/mol	Joback Method
hvap	90.89	kJ/mol	Joback Method
log10ws	-7.31		Crippen Method
logp	6.229		Crippen Method
mcvol	335.840	ml/mol	McGowan Method
pc	1056.20	kPa	Joback Method
rinpol	2930.00		NIST Webbook
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tb	941.90	K	Joback Method
tc	1154.37	K	Joback Method
tf	550.94	K	Joback Method
vc	1.300	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1090.89	J/molxK	941.90	Joback Method
cpg	1107.43	J/molxK	977.31	Joback Method
cpg	1122.71	J/molxK	1012.72	Joback Method
cpg	1136.76	J/molxK	1048.14	Joback Method
cpg	1149.64	J/molxK	1083.55	Joback Method
cpg	1161.38	J/molxK	1118.96	Joback Method
cpg	1172.04	J/molxK	1154.37	Joback Method
dvisc	0.0003103	Paxs	550.94	Joback Method

dvisc	0.0001674	Paxs	616.10	Joback Method
dvisc	0.0001017	Paxs	681.26	Joback Method
dvisc	0.0000673	Paxs	746.42	Joback Method
dvisc	0.0000477	Paxs	811.58	Joback Method
dvisc	0.0000355	Paxs	876.74	Joback Method
dvisc	0.0000276	Paxs	941.90	Joback Method

Sources

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=U390032&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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