

Succinic acid, dec-2-yl 4-acetylphenyl ester

Inchi:	InChI=1S/C22H32O5/c1-4-5-6-7-8-9-10-17(2)26-21(24)15-16-22(25)27-20-13-11-19(12-13)
InchiKey:	AUILZZSDUULNPN-UHFFFAOYSA-N
Formula:	C22H32O5
SMILES:	CCCCCCCC(C)OC(=O)CCC(=O)Oc1ccc(C(C)=O)cc1
Mol. weight [g/mol]:	376.49

Physical Properties

Property code	Value	Unit	Source
gf	-362.06	kJ/mol	Joback Method
hf	-879.81	kJ/mol	Joback Method
hfus	50.04	kJ/mol	Joback Method
hvap	92.17	kJ/mol	Joback Method
log10ws	-6.44		Crippen Method
logp	5.257		Crippen Method
mvol	313.530	ml/mol	McGowan Method
pc	1230.28	kPa	Joback Method
rinpol	2845.00		NIST Webbook
rinpol	2845.00		NIST Webbook
tb	940.43	K	Joback Method
tc	1154.17	K	Joback Method
tf	555.89	K	Joback Method
vc	1.208	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1013.54	J/molxK	940.43	Joback Method
cpg	1073.91	J/molxK	1118.55	Joback Method
cpg	1064.39	J/molxK	1082.93	Joback Method
cpg	1053.63	J/molxK	1047.30	Joback Method
cpg	1041.59	J/molxK	1011.68	Joback Method
cpg	1028.24	J/molxK	976.05	Joback Method
cpg	1082.20	J/molxK	1154.17	Joback Method
dvisc	0.0000357	Paxs	940.43	Joback Method

dvisc	0.0000465	Paxs	876.34	Joback Method
dvisc	0.0000631	Paxs	812.25	Joback Method
dvisc	0.0000901	Paxs	748.16	Joback Method
dvisc	0.0001377	Paxs	684.07	Joback Method
dvisc	0.0002297	Paxs	619.98	Joback Method
dvisc	0.0004310	Paxs	555.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389914&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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