

# Sebacic acid, decyl 4-formylphenyl ester

<b>Inchi:</b>	InChI=1S/C27H42O5/c1-2-3-4-5-6-9-12-15-22-31-26(29)16-13-10-7-8-11-14-17-27(30)32
<b>InchiKey:</b>	VROJYOBKNXAXPK-UHFFFAOYSA-N
<b>Formula:</b>	C27H42O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCCCCCC(=O)Oc1ccc(C=O)cc1
<b>Mol. weight [g/mol]:</b>	446.62

## Physical Properties

Property code	Value	Unit	Source
gf	-288.12	kJ/mol	Joback Method
hf	-950.73	kJ/mol	Joback Method
hfus	67.20	kJ/mol	Joback Method
hvap	103.67	kJ/mol	Joback Method
log10ws	-8.42		Crippen Method
logp	7.209		Crippen Method
mcvol	383.980	ml/mol	McGowan Method
pc	902.89	kPa	Joback Method
rinpol	3534.00		NIST Webbook
rinpol	3534.00		NIST Webbook
tb	1050.06	K	Joback Method
tc	1291.61	K	Joback Method
tf	619.31	K	Joback Method
vc	1.504	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1319.07	J/molxK	1050.06	Joback Method
cpg	1382.09	J/molxK	1251.35	Joback Method
cpg	1372.78	J/molxK	1211.09	Joback Method
cpg	1361.89	J/molxK	1170.83	Joback Method
cpg	1349.35	J/molxK	1130.58	Joback Method
cpg	1335.11	J/molxK	1090.32	Joback Method
cpg	1389.90	J/molxK	1291.61	Joback Method
dvisc	0.0000207	Paxs	1050.06	Joback Method

dvisc	0.0000269	Paxs	978.27	Joback Method
dvisc	0.0000365	Paxs	906.48	Joback Method
dvisc	0.0000521	Paxs	834.68	Joback Method
dvisc	0.0000797	Paxs	762.89	Joback Method
dvisc	0.0001331	Paxs	691.10	Joback Method
dvisc	0.0002502	Paxs	619.31	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354894&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354894&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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