

# Sebacic acid, pentyl 2,3,5,6-tetrachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C21H28Cl4O4/c1-2-3-10-13-28-17(26)11-8-6-4-5-7-9-12-18(27)29-21-19(24)1
<b>InchiKey:</b>	VDCWJTPNVJJVBB-UHFFFAOYSA-N
<b>Formula:</b>	C21H28Cl4O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCCCCCC(=O)Oc1c(Cl)c(Cl)cc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	486.26

## Physical Properties

Property code	Value	Unit	Source
gf	-315.73	kJ/mol	Joback Method
hf	-838.68	kJ/mol	Joback Method
hfus	64.99	kJ/mol	Joback Method
hvap	103.12	kJ/mol	Joback Method
log10ws	-8.83		Crippen Method
logp	8.060		Crippen Method
mvol	346.830	ml/mol	McGowan Method
pc	1097.17	kPa	Joback Method
rinpol	3260.00		NIST Webbook
rinpol	3260.00		NIST Webbook
tb	1028.78	K	Joback Method
tc	1259.68	K	Joback Method
tf	666.93	K	Joback Method
vc	1.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1029.49	J/molxK	1028.78	Joback Method
cpg	1071.95	J/molxK	1221.20	Joback Method
cpg	1066.14	J/molxK	1182.71	Joback Method
cpg	1059.02	J/molxK	1144.23	Joback Method
cpg	1050.56	J/molxK	1105.75	Joback Method
cpg	1040.72	J/molxK	1067.26	Joback Method
cpg	1076.46	J/molxK	1259.68	Joback Method
dvisc	0.0000261	Paxs	1028.78	Joback Method

dvisc	0.0000323	Paxs	968.47	Joback Method
dvisc	0.0000412	Paxs	908.16	Joback Method
dvisc	0.0000544	Paxs	847.86	Joback Method
dvisc	0.0000749	Paxs	787.55	Joback Method
dvisc	0.0001087	Paxs	727.24	Joback Method
dvisc	0.0001687	Paxs	666.93	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=U355292&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355292&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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