

# Sebacic acid, pentafluorobenzyl propyl ester

<b>Inchi:</b>	InChI=1S/C20H25F5O4/c1-2-11-28-14(26)9-7-5-3-4-6-8-10-15(27)29-12-13-16(21)18(23)
<b>InchiKey:</b>	ZYCLZZIFTJCQAO-UHFFFAOYSA-N
<b>Formula:</b>	C20H25F5O4
<b>SMILES:</b>	CCCOC(=O)CCCCCCCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	424.40

## Physical Properties

Property code	Value	Unit	Source
gf	-1260.11	kJ/mol	Joback Method
hf	-1747.10	kJ/mol	Joback Method
hfus	60.63	kJ/mol	Joback Method
hvap	79.93	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.499		Crippen Method
mcvol	292.630	ml/mol	McGowan Method
pc	1100.08	kPa	Joback Method
rinsol	2373.00		NIST Webbook
tb	857.51	K	Joback Method
tc	1049.95	K	Joback Method
tf	551.45	K	Joback Method
vc	1.185	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	911.62	J/molxK	857.51	Joback Method
cpg	926.06	J/molxK	889.58	Joback Method
cpg	939.45	J/molxK	921.66	Joback Method
cpg	951.81	J/molxK	953.73	Joback Method
cpg	963.13	J/molxK	985.80	Joback Method
cpg	973.42	J/molxK	1017.88	Joback Method
cpg	982.69	J/molxK	1049.95	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=U354896&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354896&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>mccvol:</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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