

# Sebacic acid, heptyl 2-(pentafluorophenoxy)ethyl ester

Inchi:	InChI=1S/C25H35F5O5/c1-2-3-4-9-12-15-33-18(31)13-10-7-5-6-8-11-14-19(32)34-16-17
InchiKey:	DHVZURLJAGSYNZ-UHFFFAOYSA-N
Formula:	C25H35F5O5
SMILES:	CCCCCCCOC(=O)CCCCCCCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	510.53

## Physical Properties

Property code	Value	Unit	Source
gf	-1323.01	kJ/mol	Joback Method
hf	-1982.52	kJ/mol	Joback Method
hfus	74.76	kJ/mol	Joback Method
hvap	93.47	kJ/mol	Joback Method
log10ws	-8.51		Crippen Method
logp	6.938		Crippen Method
mvol	368.950	ml/mol	McGowan Method
pc	810.76	kPa	Joback Method
rinpol	2788.00		NIST Webbook
rinpol	2788.00		NIST Webbook
tb	994.33	K	Joback Method
tc	1232.95	K	Joback Method
tf	630.03	K	Joback Method
vc	1.484	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1241.83	J/molxK	994.33	Joback Method
cpg	1258.07	J/molxK	1034.10	Joback Method
cpg	1272.28	J/molxK	1073.87	Joback Method
cpg	1284.47	J/molxK	1113.64	Joback Method
cpg	1294.65	J/molxK	1153.41	Joback Method
cpg	1302.85	J/molxK	1193.18	Joback Method
cpg	1309.06	J/molxK	1232.95	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=U416785&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416785&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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