

# Sebacic acid, dipentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C24H20F10O4/c25-15-11(16(26)20(30)23(33)19(15)29)9-37-13(35)7-5-3-1-2-4
<b>InchiKey:</b>	PSADLRIMTFQPKD-UHFFFAOYSA-N
<b>Formula:</b>	C24H20F10O4
<b>SMILES:</b>	O=C(CCCCCCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	562.40

## Physical Properties

Property code	Value	Unit	Source
gf	-2136.22	kJ/mol	Joback Method
hf	-2631.03	kJ/mol	Joback Method
hfus	78.48	kJ/mol	Joback Method
hvap	90.33	kJ/mol	Joback Method
log10ws	-10.11		Crippen Method
logp	6.985		Crippen Method
mcvol	334.080	ml/mol	McGowan Method
pc	881.57	kPa	Joback Method
rinqol	2731.00		NIST Webbook
tb	996.96	K	Joback Method
tc	1235.29	K	Joback Method
tf	688.50	K	Joback Method
vc	1.391	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1074.81	J/molxK	996.96	Joback Method
cpg	1086.92	J/molxK	1036.68	Joback Method
cpg	1097.26	J/molxK	1076.40	Joback Method
cpg	1105.82	J/molxK	1116.13	Joback Method
cpg	1112.60	J/molxK	1155.85	Joback Method
cpg	1117.61	J/molxK	1195.57	Joback Method
cpg	1120.85	J/molxK	1235.29	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354911&amp;Units=SI</a>
<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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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