

# Sebacic acid, pentadecyl pentafluorobenzyl ester

Inchi:	InChI=1S/C32H49F5O4/c1-2-3-4-5-6-7-8-9-10-11-14-17-20-23-40-26(38)21-18-15-12-13
InchiKey:	PLEBVBHDFXDRSM-UHFFFAOYSA-N
Formula:	C32H49F5O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	592.72

## Physical Properties

Property code	Value	Unit	Source
gf	-1159.07	kJ/mol	Joback Method
hf	-1994.78	kJ/mol	Joback Method
hfus	91.71	kJ/mol	Joback Method
hvap	106.64	kJ/mol	Joback Method
log10ws	-12.20		Crippen Method
logp	10.181		Crippen Method
mvol	461.710	ml/mol	McGowan Method
pc	575.91	kPa	Joback Method
rinpol	3604.00		NIST Webbook
rinpol	3604.00		NIST Webbook
tb	1132.07	K	Joback Method
tc	1470.93	K	Joback Method
tf	686.69	K	Joback Method
vc	1.857	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1652.03	J/molxK	1132.07	Joback Method
cpg	1672.76	J/molxK	1188.55	Joback Method
cpg	1689.50	J/molxK	1245.02	Joback Method
cpg	1702.43	J/molxK	1301.50	Joback Method
cpg	1711.74	J/molxK	1357.97	Joback Method
cpg	1717.60	J/molxK	1414.45	Joback Method
cpg	1720.21	J/molxK	1470.93	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U354910&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354910&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>hvp:</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>rinp:</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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