

# Sebacic acid, 2,2,3,3,4,4,5,5-octafluoropentyl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C30H50F8O4/c1-2-3-4-5-6-7-8-9-10-11-14-17-20-23-41-25(39)21-18-15-12-13
<b>InchiKey:</b>	UJWGLBYDPPCTOY-UHFFFAOYSA-N
<b>Formula:</b>	C30H50F8O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	626.70

## Physical Properties

Property code	Value	Unit	Source
gf	-1818.52	kJ/mol	Joback Method
hf	-2752.54	kJ/mol	Joback Method
hfus	77.91	kJ/mol	Joback Method
hvap	89.87	kJ/mol	Joback Method
log10ws	-11.36		Crippen Method
logp	10.456		Crippen Method
mvol	462.600	ml/mol	McGowan Method
pc	540.58	kPa	Joback Method
rinpol	3101.00		NIST Webbook
rinpol	3101.00		NIST Webbook
tb	1022.41	K	Joback Method
tc	1316.99	K	Joback Method
tf	569.16	K	Joback Method
vc	1.869	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1656.46	J/molxK	1022.41	Joback Method
cpg	1682.82	J/molxK	1071.51	Joback Method
cpg	1706.94	J/molxK	1120.60	Joback Method
cpg	1729.18	J/molxK	1169.70	Joback Method
cpg	1749.88	J/molxK	1218.79	Joback Method
cpg	1769.36	J/molxK	1267.89	Joback Method
cpg	1787.98	J/molxK	1316.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355747&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355747&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>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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