

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

**Inchi:** InChI=1S/C19H28F8O4/c1-13(2)11-30-14(28)9-7-5-3-4-6-8-10-15(29)31-12-17(22,23)19

**InchiKey:** FCZXNMURSXXVHFT-UHFFFAOYSA-N

**Formula:** C19H28F8O4

**SMILES:** CC(C)COC(=O)CCCCCCCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F

**Mol. weight [g/mol]:** 472.41

## Physical Properties

Property code	Value	Unit	Source
gf	-1913.58	kJ/mol	Joback Method
hf	-2530.78	kJ/mol	Joback Method
hfus	45.89	kJ/mol	Joback Method
hvap	65.00	kJ/mol	Joback Method
log10ws	-6.52		Crippen Method
logp	6.021		Crippen Method
mcvol	307.610	ml/mol	McGowan Method
pc	954.37	kPa	Joback Method
rinpol	2032.00		NIST Webbook
rinpol	2032.00		NIST Webbook
tb	770.29	K	Joback Method
tc	943.28	K	Joback Method
tf	430.19	K	Joback Method
vc	1.246	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	974.39	J/molxK	770.29	Joback Method
cpg	990.19	J/molxK	799.12	Joback Method
cpg	1005.04	J/molxK	827.95	Joback Method
cpg	1018.99	J/molxK	856.78	Joback Method
cpg	1032.09	J/molxK	885.61	Joback Method
cpg	1044.38	J/molxK	914.45	Joback Method
cpg	1055.93	J/molxK	943.28	Joback Method

# Sources

<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=U355734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355734&amp;Units=SI</a>
<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.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>

# 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>rlnol:</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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