

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

Inchi: InChI=1S/C21H32F8O4/c1-15(2)10-9-13-32-16(30)11-7-5-3-4-6-8-12-17(31)33-14-19(24)

InchiKey: RTCFRBCTZQIFDT-UHFFFAOYSA-N

Formula: C21H32F8O4

SMILES: CC(C)CCCOC(=O)CCCCCCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F

Mol. weight [g/mol]: 500.46

## Physical Properties

Property code	Value	Unit	Source
gf	-1896.74	kJ/mol	Joback Method
hf	-2572.06	kJ/mol	Joback Method
hfus	51.07	kJ/mol	Joback Method
hvap	69.45	kJ/mol	Joback Method
log10ws	-7.35		Crippen Method
logp	6.801		Crippen Method
mcvol	335.790	ml/mol	McGowan Method
pc	850.48	kPa	Joback Method
rinpol	2216.00		NIST Webbook
rinpol	2216.00		NIST Webbook
tb	816.05	K	Joback Method
tc	999.77	K	Joback Method
tf	452.73	K	Joback Method
vc	1.359	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1092.73	J/molxK	816.05	Joback Method
cpg	1109.70	J/molxK	846.67	Joback Method
cpg	1125.59	J/molxK	877.29	Joback Method
cpg	1140.48	J/molxK	907.91	Joback Method
cpg	1154.42	J/molxK	938.53	Joback Method
cpg	1167.48	J/molxK	969.15	Joback Method
cpg	1179.73	J/molxK	999.77	Joback Method

# Sources

<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=U355737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355737&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>

# 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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