

# Butyl perfluorohexanoate

<b>Other names:</b>	2,2,3,3,4,4,5,5,6,6,6-Undecafluoro- hexanoic acid butyl ester
<b>Inchi:</b>	InChI=1S/C10H9F11O2/c1-2-3-4-23-5(22)6(11,12)7(13,14)8(15,16)9(17,18)10(19,20)21/
<b>InchiKey:</b>	LISFREFGRFFOEH-UHFFFAOYSA-N
<b>Formula:</b>	C10H9F11O2
<b>SMILES:</b>	CCCCOC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	370.16

## Physical Properties

Property code	Value	Unit	Source
gf	-2329.31	kJ/mol	Joback Method
hf	-2695.49	kJ/mol	Joback Method
hfus	21.25	kJ/mol	Joback Method
hvap	31.54	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	4.433		Crippen Method
mcvol	178.670	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
rinpol	842.00		NIST Webbook
rinpol	842.20		NIST Webbook
tb	480.31	K	Joback Method
tc	618.73	K	Joback Method
tf	293.21	K	Joback Method
vc	0.762	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.73	J/molxK	480.31	Joback Method
cpg	484.48	J/molxK	503.38	Joback Method
cpg	496.45	J/molxK	526.45	Joback Method
cpg	507.68	J/molxK	549.52	Joback Method
cpg	518.20	J/molxK	572.59	Joback Method
cpg	528.05	J/molxK	595.66	Joback Method
cpg	537.27	J/molxK	618.73	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=R70058&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R70058&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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