

# 3,3,4,4-Tetrafluoro-1-butanol

<b>Inchi:</b>	InChI=1S/C4H6F4O/c5-3(6)4(7,8)1-2-9/h3,9H,1-2H2
<b>InchiKey:</b>	ISIBHDNEXXBQIY-UHFFFAOYSA-N
<b>Formula:</b>	C4H6F4O
<b>SMILES:</b>	OCCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	146.08
<b>CAS:</b>	5926-87-4

## Physical Properties

Property code	Value	Unit	Source
gf	-932.86	kJ/mol	Joback Method
hf	-1076.59	kJ/mol	Joback Method
hfus	11.59	kJ/mol	Joback Method
hvap	36.23	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.269		Crippen Method
mcvol	80.170	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
tb	376.51	K	Joback Method
tc	519.37	K	Joback Method
tf	185.44	K	Joback Method
vc	0.334	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	169.00	J/molxK	376.51	Joback Method
cpg	176.12	J/molxK	400.32	Joback Method
cpg	182.90	J/molxK	424.13	Joback Method
cpg	189.36	J/molxK	447.94	Joback Method
cpg	195.50	J/molxK	471.75	Joback Method
cpg	201.35	J/molxK	495.56	Joback Method
cpg	206.90	J/molxK	519.37	Joback Method

# Sources

<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=C5926874&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5926874&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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