

# (S)-(-)-1,2,4-Butanetriol, 4-pentafluoropropionate

Inchi:	InChI=1S/C7H9F5O4/c8-6(9,7(10,11)12)5(15)16-2-1-4(14)3-13/h4,13-14H,1-3H2
InchiKey:	UJRHXTYAFYZOBS-UHFFFAOYSA-N
Formula:	C7H9F5O4
SMILES:	O=C(OCCC(O)CO)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	252.14

## Physical Properties

Property code	Value	Unit	Source
gf	-1470.31	kJ/mol	Joback Method
hf	-1740.40	kJ/mol	Joback Method
hfus	21.90	kJ/mol	Joback Method
hvap	66.62	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	0.470		Crippen Method
mcvol	137.520	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
rinpol	989.00		NIST Webbook
rinpol	989.00		NIST Webbook
tb	609.66	K	Joback Method
tc	764.08	K	Joback Method
tf	355.24	K	Joback Method
vc	0.551	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.02	J/mol×K	609.66	Joback Method
cpg	392.77	J/mol×K	635.40	Joback Method
cpg	400.07	J/mol×K	661.13	Joback Method
cpg	406.94	J/mol×K	686.87	Joback Method
cpg	413.41	J/mol×K	712.61	Joback Method
cpg	419.50	J/mol×K	738.34	Joback Method
cpg	425.22	J/mol×K	764.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374870&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>hvpap:</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>rinppl:</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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