

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

Inchi:	InChI=1S/C10H8F10O5/c11-7(12,9(15,16)17)5(22)24-2-1-4(3-21)25-6(23)8(13,14)10(18)
InchiKey:	SJKPSOOKCDNRPQ-UHFFFAOYSA-N
Formula:	C10H8F10O5
SMILES:	O=C(OCCC(CO)OC(=O)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	398.15

## Physical Properties

Property code	Value	Unit	Source
gf	-2510.52	kJ/mol	Joback Method
hf	-2892.94	kJ/mol	Joback Method
hfus	28.94	kJ/mol	Joback Method
hvap	59.10	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	2.219		Crippen Method
mcvol	190.210	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinsol	1063.00		NIST Webbook
tb	652.30	K	Joback Method
tc	806.22	K	Joback Method
tf	408.18	K	Joback Method
vc	0.792	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	565.55	J/mol×K	652.30	Joback Method
cpg	574.54	J/mol×K	677.95	Joback Method
cpg	582.92	J/mol×K	703.61	Joback Method
cpg	590.71	J/mol×K	729.26	Joback Method
cpg	597.96	J/mol×K	754.92	Joback Method
cpg	604.69	J/mol×K	780.57	Joback Method
cpg	610.94	J/mol×K	806.22	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=U374871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374871&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>
<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>rinpola:</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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