

# 1,2-Propanediol, bis(trifluoroacetate)

<b>Inchi:</b>	InChI=1S/C7H6F6O4/c1-3(17-5(15)7(11,12)13)2-16-4(14)6(8,9)10/h3H,2H2,1H3
<b>InchiKey:</b>	SRUSTRDCGNYRRA-UHFFFAOYSA-N
<b>Formula:</b>	C7H6F6O4
<b>SMILES:</b>	CC(COC(=O)C(F)(F)F)OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	268.11
<b>CAS:</b>	7556-83-4

## Physical Properties

Property code	Value	Unit	Source
gf	-1625.40	kJ/mol	Joback Method
hf	-1876.85	kJ/mol	Joback Method
hfus	19.59	kJ/mol	Joback Method
hvap	41.61	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.586		Crippen Method
mcvol	134.990	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
rinpol	815.00		NIST Webbook
rinpol	815.00		NIST Webbook
tb	500.86	K	Joback Method
tc	661.19	K	Joback Method
tf	306.35	K	Joback Method
vc	0.555	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.30	J/molxK	500.86	Joback Method
cpg	344.72	J/molxK	527.58	Joback Method
cpg	353.65	J/molxK	554.30	Joback Method
cpg	362.09	J/molxK	581.02	Joback Method
cpg	370.05	J/molxK	607.75	Joback Method
cpg	377.56	J/molxK	634.47	Joback Method
cpg	384.62	J/molxK	661.19	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7556834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7556834&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>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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