

# 4-Penten-2-ol, 1,1,1-trifluoro-2-(trifluoromethyl)-

Other names:	1,1,1-Trifluoro-2-(trifluoromethyl)pent-4-en-2-ol
Inchi:	InChI=1S/C6H6F6O/c1-2-3-4(13,5(7,8)9)6(10,11)12/h2,13H,1,3H2
InchiKey:	VHSCQANAKTXZTG-UHFFFAOYSA-N
Formula:	C6H6F6O
SMILES:	C=CCC(O)(C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]:	208.10
CAS:	646-97-9

## Physical Properties

Property code	Value	Unit	Source
gf	-1209.68	kJ/mol	Joback Method
hf	-1396.88	kJ/mol	Joback Method
hfus	10.34	kJ/mol	Joback Method
hvap	36.17	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.418		Crippen Method
mcvol	107.590	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
tb	411.47	K	Joback Method
tc	556.65	K	Joback Method
tf	227.24	K	Joback Method
vc	0.447	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.42	J/mol×K	411.47	Joback Method
cpg	258.00	J/mol×K	435.67	Joback Method
cpg	266.96	J/mol×K	459.86	Joback Method
cpg	275.32	J/mol×K	484.06	Joback Method
cpg	283.12	J/mol×K	508.26	Joback Method
cpg	290.39	J/mol×K	532.45	Joback Method
cpg	297.16	J/mol×K	556.65	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=C646979&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C646979&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>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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