

# 2,6-Dichlorophenol, trifluoroacetate

**Inchi:** InChI=1S/C8H3Cl2F3O2/c9-4-2-1-3-5(10)6(4)15-7(14)8(11,12)13/h1-3H  
**InchiKey:** OBHNRRCJWQZHDD-UHFFFAOYSA-N  
**Formula:** C8H3Cl2F3O2  
**SMILES:** O=C(Oc1c(Cl)cccc1Cl)C(F)(F)F  
**Mol. weight [g/mol]:** 259.01

## Physical Properties

Property code	Value	Unit	Source
gf	-729.74	kJ/mol	Joback Method
hf	-868.22	kJ/mol	Joback Method
hfus	22.75	kJ/mol	Joback Method
hvap	51.18	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.461		Crippen Method
mcvol	137.050	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
rinpol	1140.00		NIST Webbook
rinpol	1140.00		NIST Webbook
tb	564.81	K	Joback Method
tc	776.60	K	Joback Method
tf	367.57	K	Joback Method
vc	0.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.51	J/mol×K	564.81	Joback Method
cpg	296.00	J/mol×K	600.11	Joback Method
cpg	303.86	J/mol×K	635.41	Joback Method
cpg	311.11	J/mol×K	670.70	Joback Method
cpg	317.77	J/mol×K	706.00	Joback Method
cpg	323.87	J/mol×K	741.30	Joback Method
cpg	329.45	J/mol×K	776.60	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374856&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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