

# Chlorodifluoroacetic anhydride

<b>Other names:</b>	Acetic acid, chlorodifluoro-, anhydride
<b>Inchi:</b>	InChI=1S/C4Cl2F4O3/c5-3(7,8)1(11)13-2(12)4(6,9)10
<b>InchiKey:</b>	VBJFLOSOQGDRZ-UHFFFAOYSA-N
<b>Formula:</b>	C4Cl2F4O3
<b>SMILES:</b>	O=C(OC(=O)C(F)(F)Cl)C(F)(F)Cl
<b>Mol. weight [g/mol]:</b>	242.94
<b>CAS:</b>	2834-23-3

## Physical Properties

Property code	Value	Unit	Source
gf	-1177.46	kJ/mol	Joback Method
hf	-1316.69	kJ/mol	Joback Method
hfus	16.39	kJ/mol	Joback Method
hvap	43.31	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.719		Crippen Method
mcvol	107.790	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	486.56	K	Joback Method
tc	675.64	K	Joback Method
tf	323.97	K	Joback Method
vc	0.438	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.15	J/mol×K	486.56	Joback Method
cpg	227.17	J/mol×K	518.07	Joback Method
cpg	232.67	J/mol×K	549.59	Joback Method
cpg	237.67	J/mol×K	581.10	Joback Method
cpg	242.19	J/mol×K	612.61	Joback Method
cpg	246.27	J/mol×K	644.13	Joback Method
cpg	249.93	J/mol×K	675.64	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=C2834233&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2834233&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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