

# Propanedinitrile, dichloro-

<b>Other names:</b>	Malononitrile, dichloro- Dichlorodicyanomethane Dichloromalononitrile Dichloromalonitrile
<b>Inchi:</b>	InChI=1S/C3Cl2N2/c4-3(5,1-6)2-7
<b>InchiKey:</b>	NCWGPYPDPWOJKC-UHFFFAOYSA-N
<b>Formula:</b>	C3Cl2N2
<b>SMILES:</b>	N#CC(Cl)(Cl)C#N
<b>Mol. weight [g/mol]:</b>	134.95
<b>CAS:</b>	13063-43-9

## Physical Properties

Property code	Value	Unit	Source
gf	219.72	kJ/mol	Joback Method
hf	184.28	kJ/mol	Joback Method
hfus	7.52	kJ/mol	Joback Method
hvap	50.70	kJ/mol	Joback Method
log10ws	-1.72		Crippen Method
logp	1.207		Crippen Method
mcvol	80.370	ml/mol	McGowan Method
pc	3853.09	kPa	Joback Method
tb	370.20	K	NIST Webbook
tc	787.75	K	Joback Method
tf	315.81	K	Joback Method
vc	0.343	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	128.03	J/mol×K	543.83	Joback Method
cpg	130.79	J/mol×K	584.48	Joback Method
cpg	133.17	J/mol×K	625.14	Joback Method
cpg	135.24	J/mol×K	665.79	Joback Method
cpg	137.01	J/mol×K	706.45	Joback Method

cpg	138.54	J/mol×K	747.10	Joback Method
cpg	139.87	J/mol×K	787.75	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=C13063439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13063439&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>

## 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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