

# 4-chloro-2,6-dinitroaniline

<b>Inchi:</b>	InChI=1S/C6H4ClN3O4/c7-3-1-4(9(11)12)6(8)5(2-3)10(13)14/h1-2H,8H2
<b>InchiKey:</b>	CLMQUEQFVUMDPC-UHFFFAOYSA-N
<b>Formula:</b>	C6H4ClN3O4
<b>SMILES:</b>	<chem>Nc1c([N+](=O)[O-])cc(Cl)cc1[N+](=O)[O-]</chem>
<b>Mol. weight [g/mol]:</b>	217.57
<b>CAS:</b>	5388-62-5

## Physical Properties

Property code	Value	Unit	Source
gf	208.78	kJ/mol	Joback Method
hf	31.48	kJ/mol	Joback Method
hfus	36.29	kJ/mol	Joback Method
hsub	105.20 ± 0.70	kJ/mol	NIST Webbook
hvap	81.42	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	1.739		Crippen Method
mvol	128.700	ml/mol	McGowan Method
pc	4665.71	kPa	Joback Method
tb	791.94	K	Joback Method
tc	1078.04	K	Joback Method
tf	621.76	K	Joback Method
vc	0.505	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.51	J/mol×K	1030.36	Joback Method
cpg	312.64	J/mol×K	791.94	Joback Method
cpg	319.72	J/mol×K	839.62	Joback Method
cpg	326.00	J/mol×K	887.31	Joback Method
cpg	331.52	J/mol×K	934.99	Joback Method
cpg	336.34	J/mol×K	982.67	Joback Method
cpg	344.05	J/mol×K	1078.04	Joback Method
hsubt	104.70 ± 0.40	kJ/mol	347.00	NIST Webbook

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5388625&amp;Units=SI&amp;Mask=3FFF">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5388625&amp;Units=SI&amp;Mask=3FFF</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>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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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