

# 2,6-Dichloro-3-nitrotoluene

<b>Other names:</b>	Benzene, 1,3-dichloro-2-methyl-4-nitro-
<b>Inchi:</b>	InChI=1S/C7H5Cl2NO2/c1-4-5(8)2-3-6(7(4)9)10(11)12/h2-3H,1H3
<b>InchiKey:</b>	WBNZUUIFTPNYRN-UHFFFAOYSA-N
<b>Formula:</b>	C7H5Cl2NO2
<b>SMILES:</b>	Cc1c(Cl)ccc([N+](=O)[O-])c1Cl
<b>Mol. weight [g/mol]:</b>	206.03
<b>CAS:</b>	29682-46-0

## Physical Properties

Property code	Value	Unit	Source
gf	103.27	kJ/mol	Joback Method
hf	-27.93	kJ/mol	Joback Method
hfus	26.52	kJ/mol	Joback Method
hvap	60.80	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.210		Crippen Method
mcvol	127.630	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
tb	627.88	K	Joback Method
tc	887.04	K	Joback Method
tf	436.08	K	Joback Method
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	260.32	J/mol×K	627.88	Joback Method
cpg	269.10	J/mol×K	671.07	Joback Method
cpg	277.20	J/mol×K	714.27	Joback Method
cpg	284.64	J/mol×K	757.46	Joback Method
cpg	291.45	J/mol×K	800.65	Joback Method
cpg	297.66	J/mol×K	843.84	Joback Method
cpg	303.31	J/mol×K	887.04	Joback Method

# 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=C29682460&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29682460&amp;Units=SI</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>h vap:</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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