

# 1,2-Dimethoxy-4,5-dinitrobenzene

<b>Other names:</b>	4,5-Dinitro veratrole
<b>Inchi:</b>	InChI=1S/C8H8N2O6/c1-15-7-3-5(9(11)12)6(10(13)14)4-8(7)16-2/h3-4H,1-2H3
<b>InchiKey:</b>	WFDHPWPTYKOAQFBJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H8N2O6
<b>SMILES:</b>	COc1cc([N+](=O)[O-])c([N+](=O)[O-])cc1OC
<b>Mol. weight [g/mol]:</b>	228.16
<b>CAS:</b>	3395-03-7

## Physical Properties

Property code	Value	Unit	Source
gf	-38.90	kJ/mol	Joback Method
hf	-292.29	kJ/mol	Joback Method
hfus	34.45	kJ/mol	Joback Method
hvap	75.67	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	1.520		Crippen Method
mcvol	146.400	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
tb	772.58	K	Joback Method
tc	1030.98	K	Joback Method
tf	575.58	K	Joback Method
vc	0.576	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	392.28	J/molxK	772.58	Joback Method
cpg	402.28	J/molxK	815.65	Joback Method
cpg	411.30	J/molxK	858.71	Joback Method
cpg	419.34	J/molxK	901.78	Joback Method
cpg	426.37	J/molxK	944.85	Joback Method
cpg	432.37	J/molxK	987.92	Joback Method
cpg	437.33	J/molxK	1030.98	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=C3395037&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3395037&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>
<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>

# 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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