

# 3,5-Dinitrobenzamide

<b>Other names:</b>	Nitromide Benzamide, 3,5-dinitro- component of Tristat component of Unistat component of Unistat-3 Tristat Unistat
<b>Inchi:</b>	InChI=1S/C7H5N3O5/c8-7(11)4-1-5(9(12)13)3-6(2-4)10(14)15/h1-3H,(H2,8,11)
<b>InchiKey:</b>	UUKWKUSGGZNXGA-UHFFFAOYSA-N
<b>Formula:</b>	C7H5N3O5
<b>SMILES:</b>	NC(=O)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	211.13
<b>CAS:</b>	121-81-3

## Physical Properties

Property code	Value	Unit	Source
gf	109.84	kJ/mol	Joback Method
hf	-74.53	kJ/mol	Joback Method
hfus	36.67	kJ/mol	Joback Method
hvap	85.34	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	0.602		Crippen Method
mcvol	132.120	ml/mol	McGowan Method
pc	4789.21	kPa	Joback Method
tb	826.28	K	Joback Method
tc	1106.99	K	Joback Method
tf	640.52	K	Joback Method
vc	0.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.35	J/mol×K	826.28	Joback Method
cpg	357.69	J/mol×K	873.06	Joback Method

cpg	364.14	J/mol×K	919.85	Joback Method
cpg	369.77	J/mol×K	966.63	Joback Method
cpg	374.63	J/mol×K	1013.42	Joback Method
cpg	378.76	J/mol×K	1060.20	Joback Method
cpg	382.24	J/mol×K	1106.99	Joback Method

## Sources

<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=C121813&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C121813&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>

## 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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