

# 2,4-Dinitro-N-ethylaniline

<b>Other names:</b>	Benzenamine, N-ethyl-2,4-dinitro- N-ethyl-2,4-dinitroaniline
<b>Inchi:</b>	InChI=1S/C8H9N3O4/c1-2-9-7-4-3-6(10(12)13)5-8(7)11(14)15/h3-5,9H,2H2,1H3
<b>InchiKey:</b>	YYOUTZBUOQBAAE-UHFFFAOYSA-N
<b>Formula:</b>	C8H9N3O4
<b>SMILES:</b>	CCNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	211.17
<b>CAS:</b>	3846-50-2

## Physical Properties

Property code	Value	Unit	Source
gf	270.12	kJ/mol	Joback Method
hf	37.09	kJ/mol	Joback Method
hfus	37.56	kJ/mol	Joback Method
hvap	76.62	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	1.935		Crippen Method
mvol	144.640	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
tb	772.93	K	Joback Method
tc	1035.37	K	Joback Method
tf	571.26	K	Joback Method
vc	0.575	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.67	J/molxK	772.93	Joback Method
cpg	403.82	J/molxK	816.67	Joback Method
cpg	413.03	J/molxK	860.41	Joback Method
cpg	421.36	J/molxK	904.15	Joback Method
cpg	428.86	J/molxK	947.89	Joback Method
cpg	435.60	J/molxK	991.63	Joback Method
cpg	441.61	J/molxK	1035.37	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=C3846502&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3846502&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.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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