

# Benzenamine, 2,4-dinitro-N-propyl-

<b>Other names:</b>	Aniline, 2,4-dinitro-N-propyl-
<b>Inchi:</b>	InChI=1S/C9H11N3O4/c1-2-5-10-8-4-3-7(11(13)14)6-9(8)12(15)16/h3-4,6,10H,2,5H2,1H
<b>InchiKey:</b>	VTYSAZUSTIWCND-UHFFFAOYSA-N
<b>Formula:</b>	C9H11N3O4
<b>SMILES:</b>	CCCNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	225.20
<b>CAS:</b>	13059-84-2

## Physical Properties

Property code	Value	Unit	Source
gf	278.54	kJ/mol	Joback Method
hf	16.45	kJ/mol	Joback Method
hfus	40.15	kJ/mol	Joback Method
hvap	78.85	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.325		Crippen Method
mcvol	158.730	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
tb	795.81	K	Joback Method
tc	1052.39	K	Joback Method
tf	582.53	K	Joback Method
vc	0.630	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.33	J/mol×K	795.81	Joback Method
cpg	456.06	J/mol×K	838.57	Joback Method
cpg	465.83	J/mol×K	881.34	Joback Method
cpg	474.70	J/mol×K	924.10	Joback Method
cpg	482.72	J/mol×K	966.86	Joback Method
cpg	489.96	J/mol×K	1009.63	Joback Method
cpg	496.46	J/mol×K	1052.39	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=C13059842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13059842&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>

# 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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