

# 2,5-Dinitrofluorene

<b>Other names:</b>	Fluorene, 2,5-dinitro- 9H-Fluorene, 2,5-dinitro- 2,5-Dinitro-9H-fluorene
<b>Inchi:</b>	InChI=1S/C13H8N2O4/c16-14(17)10-4-5-11-9(7-10)6-8-2-1-3-12(13(8)11)15(18)19/h1-5
<b>InchiKey:</b>	XHAHNUAISBGLEX-UHFFFAOYSA-N
<b>Formula:</b>	C13H8N2O4
<b>SMILES:</b>	O=[N+]([O-])c1ccc2c(c1)Cc1cccc([N+](=O)[O-])c1-2
<b>Mol. weight [g/mol]:</b>	256.21
<b>CAS:</b>	15110-74-4

## Physical Properties

Property code	Value	Unit	Source
gf	408.64	kJ/mol	Joback Method
hf	199.47	kJ/mol	Joback Method
hfus	39.94	kJ/mol	Joback Method
hvap	84.79	kJ/mol	Joback Method
log10ws	-5.72		Crippen Method
logp	3.074		Crippen Method
mcvol	170.490	ml/mol	McGowan Method
pc	3352.86	kPa	Joback Method
rinpol	430.32		NIST Webbook
rinpol	430.32		NIST Webbook
tb	876.67	K	Joback Method
tc	1162.30	K	Joback Method
tf	655.63	K	Joback Method
vc	0.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.18	J/mol×K	876.67	Joback Method
cpg	487.43	J/mol×K	924.27	Joback Method
cpg	497.17	J/mol×K	971.88	Joback Method
cpg	506.63	J/mol×K	1019.48	Joback Method

cpg	515.99	J/mol×K	1067.09	Joback Method
cpg	525.49	J/mol×K	1114.69	Joback Method
cpg	535.31	J/mol×K	1162.30	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.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>
<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=C15110744&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15110744&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>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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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